



**Pulverproben / Festproben**  
**Mineralische / Metallurgische Feststoffe**

**Powders / Solid Samples**  
**Mineral / Metallurgical Materials**

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CRM	Mn	Si	P	S	C	Cu	Cr	Fe	N	Pb	As	Zn	Sn	Ni	Co	Sb	V	100 g
CI HC28608	67.40	1.07	0.455	0.013	6.52	-	-	-	-	-	-	-	-	-	-	-	-	50 g
CI HC25642	71.02	1.70	0.183	0.0065	1.11	-	-	-	1.92	-	-	-	-	-	-	-	-	50 g FeMn
CI HC11602	73.88	0.43	0.152	0.005	6.72	0.080	-	18.14	-	-	-	-	-	-	-	-	-	100 g
CI HC25632	78.41	0.69	0.204	0.0086	6.68	-	-	-	-	-	-	-	-	-	-	-	-	50 g
CI HC25621	79.44	1.51	0.344	0.0029	1.40	-	-	-	-	-	-	-	-	-	-	-	-	50 g
3 68c	80.04	0.225	0.19	0.008	6.72	-	0.074	12.3	-	-	0.021	-	-	-	-	-	-	-
IP 54	80.4	1.74	0.22	0.003	1.20	0.059	0.043	15.9	-	-	-	-	-	0.14	-	-	-	120 g
CI HC25620	80.48	0.94	0.153	0.0030	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CI HC25619	80.62	2.43	0.235	0.0028	1.22	-	-	-	-	-	-	-	-	-	-	-	-	-
EC 503-1	80.8	0.865	0.069	(0.009)	0.700	-	-	-	-	-	-	-	-	-	-	-	-	-
6 121	81.4	0.62	0.38	0.004	1.62	(0.15)	(0.080)	14.9	(0.022)	-	-	-	-	-	-	-	-	-
CI HC28606	82.10	1.28	0.106	0.004	1.10	-	-	-	-	-	-	-	-	-	-	-	-	RM
CI HC41601	83.35	0.948	0.180	0.003	0.86	0.107	Bi=0.00005	13.48	0.018	0.068	0.048	0.12	0.0019	0.080	0.145	0.015	0.03	50 g
CI HC25629	84.28	0.63	0.196	0.0018	0.300	-	-	-	-	-	-	-	-	-	-	-	-	50 g
EC 583-1	86.42	0.396	0.146	(0.007)	0.333	-	-	-	0.041	-	-	-	-	-	-	-	-	-
VS F29	86.7	-	0.055	0.033	0.133	-	-	2.15	5.43	-	-	-	-	-	-	-	-	-
VS F6/2	90.3	2.00	0.330	0.0031	1.90	0.050	-	5.40	-	-	-	-	-	-	-	-	-	-
VS F5/3	95.9	1.25	0.062	0.0095	0.079	0.0055	-	2.73	-	-	-	-	-	-	-	-	-	-

CRM	Si	Mn	Fe	P	S	C	Al	Ti	Cu	Ca	Mg	Cr	V	Ni	Zr	B	100 g
X 33	15.60	0.75	80.2	0.043	(0.0080)	1.01	0.62	-	0.29	-	-	0.43	-	0.28	-	-	FeSi
VS F1/3	24.5	0.510	-	0.042	0.0027	0.499	0.74	0.072	-	-	-	0.361	-	-	-	-	-
VS F3/3	44.2	0.306	-	0.035	0.0023	0.027	1.03	-	-	0.056	-	0.324	-	-	-	-	-
IP 70	44.7	0.283	54.1	0.018	(0.006)	0.087	0.21	0.018	0.066	0.16	0.016	0.046	-	0.022	-	-	60 g
CI HC28604	47.62	0.31	49.70	0.015	0.003	0.063	1.16	-	0.079	0.067	-	0.094	-	0.021	-	-	50 g
3 59a	48.2	0.76	50.0	0.016	-	0.04	0.35	-	0.05	0.04	-	0.08	-	0.03	-	0.06	50 g
CI HC28605	51.46	0.285	46.07	0.015	0.0034	0.070	1.15	-	0.0735	0.106	-	0.091	-	0.0202	-	-	50 g
CI HC19601	64.36	0.411	30.74	0.030	-	0.07	1.69	-	-	1.68	-	0.095	-	-	-	-	-
CI HC37601	68.91	0.177	26.68	0.024	-	-	2.18	-	-	-	-	0.142	-	-	-	-	-
CI HC19602	69.47	0.308	23.81	0.027	-	0.12	2.45	-	-	2.47	-	0.077	-	-	-	-	-
CI HC28602	70.75	0.131	25.14	0.011	-	0.17	1.55	-	0.040	0.98	-	0.057	-	-	-	-	80 g
CI HC19603	72.20	0.192	22.96	0.021	-	0.19	1.92	-	-	1.17	-	0.029	-	-	-	-	-
CI HC28603	72.53	0.13	24.24	0.044	0.005	0.133	1.41	-	0.036	0.74	-	0.061	-	0.012	-	-	50 g
CI HC11601	72.99	0.26	-	0.022	0.004	0.068	1.10	-	-	0.30	-	0.080	-	-	-	-	-
3 58a	73.20	0.16	25.22	0.009	<0.002	0.014	0.95	0.051	0.024	-	-	0.020	(0.002)	0.012	0.002	0.001	75 g
CI HC11601a	73.75	0.26	-	0.023	0.003	0.073	1.14	-	0.031	0.34	-	0.085	-	-	-	-	-
CI HC37602	73.29	0.140	21.37	0.022	-	-	2.74	-	-	0.616	-	-	-	-	-	-	-
NM 312	74.37	-	-	0.031	-	-	1.23	-	-	1.80	-	-	-	-	-	-	-
IP 56	75.1	0.110	22.4	0.025	0.0012	0.054	0.57	0.068	0.014	0.79	0.039	0.0044	Sr=0.014	0.0028	0.082	Ba=0.126	60 g
EC 582-2	75.22	0.230	21.42	0.018	-	0.150	1.154	0.225	-	0.405	-	0.074	-	-	-	-	-
3 195	75.3	0.17	23.6	0.02	<0.002	0.034	(0.05)	0.037	0.047	-	-	0.047	-	0.032	(<0.02)	0.0010	75 g
CI HC28601	75.6	0.129	22.43	0.012	0.003	0.075	1.13	-	0.028	0.29	-	0.068	-	0.0155	-	-	50 g
J 39	75.9	0.16	-	0.018	(<0.001)	0.105	1.45	0.116	0.013	0.24	-	-	-	-	-	-	50 g
9 720-4	76.35	0.221	-	0.032	(0.003)	(0.045)	1.52	-	-	-	-	-	-	-	-	-	-
CI HC25618	76.42	0.14	-	0.025	0.003	0.066	0.78	-	-	0.19	-	-	-	-	-	-	-
GB 01422a	76.74	0.172	-	0.023	0.004	0.081	1.80	-	-	0.30	-	0.140	-	-	-	-	50 g
VS F3/3	77.5	0.122	-	0.025	0.0023	0.049	1.96	0.121	-	0.40	-	0.095	-	-	-	-	-
EC 529-1	91.11	0.04	6.15	0.013	-	0.10	0.86	0.09	0.01	0.46	0.04	-	-	-	-	-	-

CRM	Si	C	Mn	P	S	Cu	Cr	Ni	Ca	Al	Fe	V	Co	Ti	B	Ba	Mo
CI HC14606	78.96	0.024	0.058	0.0093	0.0037	0.049	0.0053	0.035	0.064	0.24	20.24	0.0024	0.0031	0.032	0.0029	0.0060	0.0013
CI HC14607	55.73	0.19	0.22	0.038	0.0048	0.060	0.014	0.0063	0.14	0.78	41.89	0.011	0.0047	0.119	0.0032	0.0043	0.011
	<b>Mg</b>	<b>Sn</b>	<b>As</b>	<b>O</b>	<b>70 g</b>												
	0.0051	0.0003	0.0012	(0.256)	<b>FeSi</b>												
	0.0068	0.0004	0.0015	(0.665)													
RM	Si	Mn	Fe	P	S	C	Al	Ti	Cu	Ca	Cr	Ni	100 g				
6 140-1	45.20	0.46	52.80	(0.02)	(0.004)	(0.03)	0.68	0.09	0.13	0.04	(0.25)	0.15	<b>FeSi</b>				
6 140-2	51.85	0.53	46.12	(0.02)	(0.004)	(0.03)	0.62	0.10	0.14	0.03	(0.25)	0.15					
6 140-3	47.20	0.60	50.85	(0.02)	(0.004)	(0.05)	0.59	0.07	0.09	0.09	(0.18)	0.09					
6 140-4	49.80	1.00	47.50	(0.02)	(0.004)	(0.05)	0.90	0.09	0.09	0.09	(0.19)	0.11					
CRM	Mo	Si	P	C	S	Cu	As	Pb	Bi	W	Zn	Sn	Sb	100 g			
CM 1631	59.16	0.67	0.024	0.097	0.072	0.178	-	-	-	-	-	-	-	50 g	<b>FeMo</b>		
CM 1633	60.08	0.45	0.023	0.049	0.065	0.191	-	-	-	-	-	-	-	50 g			
CI HC25634	62.12	0.33	0.032	0.022	0.067	0.181	-	-	-	-	-	-	-	50 g			
CI HC26610	66.52	1.20	0.035	0.049	0.064	0.049	-	-	-	-	-	-	-	50 g			
EC 578-1	72.23	0.208	0.024	0.016	0.065	0.136	-	-	-	-	-	-	-				
CRM	Cr	C	Si	P	S	Co	N	V	Al	Ti	Cu	Ni	Mn	Fe	Mg	100 g	
EC 585-1	49.05	5.488	4.69	0.0255	0.0320	0.062	0.0127	0.282	-	0.263	-	0.294	0.801	38.67	-		
X 74	49.7	6.44	4.34	0.018	0.04	0.06	-	0.36	-	0.47	-	0.21	0.193	37.5	-		
CI HC27601	53.93	1.66	0.31	0.028	0.021	-	-	-	-	-	-	-	0.60	-	-	50 g	
J 15A	55.08	7.54	3.03	0.022	0.022	0.049	0.020	0.19	-	0.30	-	0.33	0.275	-	0.017		
CM 1622	58.37	6.19	5.79	0.073	-	-	-	-	-	-	-	-	1.30	-	-	50 g	
CM 1623	61.74	7.51	3.89	0.049	-	-	-	-	-	-	-	-	0.51	-	-	50 g	
CI HC26607	61.48	7.83	2.95	0.022	0.017	-	-	-	-	-	-	-	0.34	-	-	75 g	
CI HC25624	64.12	0.229	1.15	0.035	0.0035	-	-	-	-	-	-	-	0.44	-	-	50 g	
CI HC25631	66.14	6.88	1.82	0.019	0.024	-	-	-	-	-	-	-	0.30	-	-	50 g	
CI HC25636	66.85	0.021	0.19	0.31	0.0049	-	-	-	-	-	-	0.30	0.024	-	-	50 g	
CI HC25626	66.96	0.178	1.02	0.026	-	-	-	-	-	-	-	-	0.356	-	-	50 g	
VS F12	-	0.299	-	-	-	-	-	-	-	-	-	-	-	-	-		
CI HC25635	67.23	0.051	1.02	0.028	0.003	-	-	-	-	-	-	0.30	0.31	-	-	50 g	
3 64c	68.00	4.68	1.22	0.020	0.067	0.051	0.045	0.15	-	0.02	0.005	0.43	0.16	24.98	-		
VS F15	68.2	0.078	2.10	0.036	0.0022	-	1.79	-	-	-	-	-	-	-	-		
CI HC25630	69.80	7.06	0.42	0.015	0.032	-	-	-	-	-	-	-	0.19	-	-	50 g	
EC 507-1	70.30	5.40	1.20	0.017	-	-	0.049	-	-	-	-	-	0.270	-	-		
3 196	70.87	0.035	0.38	-	-	-	-	0.12	-	-	-	-	0.28	-	-		
IP 65	71.2	0.051	0.71	0.006	0.016	0.016	-	-	9.2	-	-	0.077	0.128	17.9	-		
EC 580-1	72.18	0.019	0.306	0.011	-	0.047	0.035	0.083	-	-	-	-	-	-	-		
J 14B	72.84	0.0233	0.652	0.0143	0.0022	0.044	0.0432	0.097	-	-	0.0090	0.317	0.293	-	-		
E 509-1	72.85	0.012	0.230	(0.019)	-	-	0.026	-	-	-	-	-	-	-	-		
VS F10	-	0.021	-	-	-	-	-	-	-	-	-	-	-	-	-		
VS F8/1	99.2	0.028	0.25	0.0035	0.013	-	0.025	As=0.00026	0.17	Sn=0.00030	0.0014	-	Zn=0.0030	0.26	Pb=0.00031	<b>Cr(metal.)</b>	

RM	Cr	C	Si	P	S	V	Ti	Cu	Mn	100 g									
6 130-1	51.6	7.06	4.46	0.016	0.034	(0.39)	(0.16)	(0.011)	1.20	<b>FeCr</b>									
6 130-2	52.6	7.76	2.12	0.013	0.045	(0.38)	(0.10)	(0.007)	0.45										
6 130-3	49.0	6.54	6.25	0.014	0.029	(0.39)	(0.18)	(0.011)	0.77										
CRM	Nb	Si	Ti	P	C	S	Al	Ta	Sn	Co	Pb	N	As	Cu	100 g				
EC 576-1	43.90	1.79	1.32	-	0.201	-	2.53	0.306	0.195	-	-	-	-	-	<b>FeNb</b> VS F20: Nb = Nb + Ta				
VS F20	55.7	1.77	0.060	0.068	0.061	0.0032	2.91	-	0.0006	-	0.0003	0.157	0.0005	-					
EC 579-1	62.85	1.03	0.576	0.064	0.037	0.021	1.86	3.85	0.344	(0.005)	-	-	-	-					
9 755-2	68.14	1.82	-	0.065	0.100	0.013	1.79	(0.37)	0.053	-	-	-	-	-					
CRM	V	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	Al	Fe	As	N	Ti	100 g			
VS F32	37.05	-	-	3.50	-	-	-	-	-	-	-	-	-	6.15	-	<b>FeV</b>			
6 FeV42	42.35	0.30	3.81	3.37	0.12	0.31	0.31	3.85	5.21	0.024	(0.06)	39.45	-	0.20	0.033		<b>RM</b>		
VS F19	42.6	0.418	1.47	3.30	0.059	0.0102	0.204	-	-	-	0.005	-	0.0009	-	-	<b>RM</b>			
6 FeV45	45.27	0.24	4.86	4.14	0.12	0.33	0.41	4.28	5.82	0.01	(0.013)	33.8	-	0.26	0.022				
EC 577-1	50.16	0.089	1.79	0.158	0.035	0.034	0.054	0.053	-	-	0.414	-	-	-	-	<b>150 g</b> <b>80 g</b> <b>50 g</b>			
NM 351	52.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
CI HC26603	52.50	0.39	1.83	0.197	0.056	0.0054	-	-	-	-	-	-	-	-	-				
CI HC26608	53.93	1.66	0.31	0.60	0.028	0.021	-	-	-	-	-	-	-	-	-				
9 750-1	53.28	0.060	0.69	-	0.043	0.011	-	-	-	-	2.80	-	-	-	-				
EC 591-1	79.72	0.141	0.847	0.307	0.0299	0.0153	0.0596	0.0141	-	-	3.19	14.5	0.0022	(0.308)	(0.044)				
EC 511-1	80.7	0.049	0.341	-	(0.016)	0.018	-	-	-	-	-	-	-	-	-				
CRM	W	Si	C	S	Al	Sn	P	As	Mn	Mo	Cu	Pb	100 g						
VS F18	74.3	0.35	0.084	0.071	-	0.038	0.042	0.027	0.158	0.55	0.108	0.0003	<b>FeW</b> <b>50 g</b>						
CI HC25606	76.66	0.34	0.055	0.048	-	-	(0.028)	-	-	-	0.043	-							
EC 590-1	79.5	1.04	0.025	-	0.36	0.046	-	-	0.14	0.10	0.048	-							
EC 555-1	79.9	1.75	0.025	(0.018)	0.14	0.034	-	-	-	-	-	-							
J 17	80.8	0.2	0.74	-	-	0.05	-	0.08	-	-	-	-							
A FeW-2	81.47	0.39	1.08	-	-	0.027	0.026	-	0.41	-	-	-							
CRM	Ti	C	Si	Mn	P	S	Cu	Cr	Al	V	N	Mo	Sn	Co	Zr	Fe	Zn	100 g	
NM 341	24.91	-	2.55	-	-	-	-	-	5.54	-	-	-	-	-	-	-	-	<b>FeTi</b>	
A FeTi-2	25.34	-	2.09	-	0.029	-	-	-	6.94	-	-	-	-	-	-	-	-		
EC 510-1	26.95	0.058	4.65	-	(0.035)	-	-	-	(4.9)	-	(0.014)	-	-	-	-	-	-		
GB 01430	26.76	0.023	4.68	2.54	0.040	0.012	0.012	-	5.08	-	-	-	-	-	-	-	-	<b>50 g</b>	
CI HC26609	27.47	0.048	5.61	2.36	0.035	0.020	0.102	-	6.21	-	-	-	-	-	-	-	-	<b>50 g</b>	
CI HC25608	28.76	0.023	4.68	2.54	0.040	0.012	0.012	-	5.08	-	-	-	-	-	-	-	-	<b>50 g</b>	
CI HC26606	29.89	0.062	4.58	-	-	0.012	0.01	-	6.37	-	-	-	-	-	-	-	-	<b>80 g</b>	
EC 584-1	37.20	0.044	1.80	1.13	0.032	0.030	-	-	7.19	-	-	-	-	-	-	-	-		
EC 589-1	68.4	0.13	0.41	0.15	0.010	0.016	0.15	0.51	5.34	0.074	0.65	0.93	0.55	0.11	(0.89)	16.9	-		

B R E I T L Ä N D E R - E I C H P R O B E N

6.1.4

FeTi  
Sonstige Ferroleq. (Various Ferro Base Alloys)

RM	Ti	C	Si	Mn	P	S	Cu	Cr	Al	V	N	Mo	Sn	Co	Zr	Ni	Nb
6 FeTi2	19.4	0.46	3.2	7.91	0.053	0.012	0.43	0.33	12.7	0.81	0.16	0.15	0.16	0.04	3.6	0.16	0.03
6 FeTi1	19.9	0.57	2.9	7.7	0.050	0.009	0.60	0.33	12.5	0.69	0.143	0.06	0.11	0.028	3.6	0.17	0.05
	<b>B</b>	<b>Ca</b>	<b>100 g</b>														
	1.10	0.96															
	0.60	1.12															

Sonstige Ferroleq. (Various Ferro Base Alloys)

CRM	Si	Mn	V	Ti	Cr	B	P	C	S	Cu	Al	Co	Fe	Ni	Mo	Ca	Zn	100 g
CI HC38603	0.93	1.07	-	-	-	-	-	15.58	0.488	0.060	-	-	-	-	-	-	-	75 g
GB 01429	1.87	0.47	-	-	-	-	-	17.90	0.244	0.0681	-	-	-	-	-	-	-	50 g
3 90	-	-	-	-	-	-	-	26.2	-	-	-	-	-	-	-	-	-	75 g
VS F22	8.70	-	-	-	-	8.40	-	0.023	0.144	0.015	3.76	8.64	-	-	-	-	0.0055	
CI HC38602	0.59	-	-	-	-	15.29	-	0.013	0.078	-	-	0.66	-	-	-	-	-	75 g
EC 587-1	0.129	0.2720	0.004	0.039	0.104	18.67	0.020	0.7384	0.0010	-	0.0470	0.010	-	-	0.005	0.048	-	
VS F21	0.73	-	-	-	-	20.90	-	0.012	0.028	-	0.013	-	-	-	-	-	-	
CI HC38601	1.09	-	-	-	-	22.51	-	0.018	0.031	-	-	1.71	-	-	-	-	-	75 g
EC 586-1	34.0	62.5	0.041	-	0.044	-	-	0.041	0.025	-	-	0.022	0.007	2.89	-	0.039	-	
CI HC25613	14.42	64.29	-	-	-	-	-	0.305	2.19	0.012	-	-	-	-	-	-	-	50 g
CI HC11603	18.96	65.33	-	-	-	-	-	0.162	1.14	0.017	0.019	-	14.02	-	-	-	-	150 g
GB 01427	19.34	66.66	-	-	-	-	-	0.217	0.922	0.0125	-	-	-	-	-	-	-	50 g
CI HC26611	17.53	67.51	-	-	-	-	-	0.087	1.67	0.023	-	-	-	-	-	-	-	50 g
9 760-3	1.29	0.162	-	-	1.19	-	-	0.0222	1.73	0.0093	0.0219	-	0.504	-	19.56	-	-	150 g

CRM	Si	Mg	Al	C	Mn	P	S	Cu	Ni	Cr	Co	Ti	Ce	La	Ca	RE(tot)	Fe	100 g
3 347	47.6	4.49	0.78	0.017	0.53	0.023	0.005	0.065	0.082	0.14	0.004	0.036	0.45	0.26	0.81	0.86	-	FeSiMg
CI HC28611	43.03	5.70	-	-	0.51	-	-	-	-	-	-	0.362	-	-	0.84	-	40.7	80 g

CRM	Si	Mn	V	Ti	Cr	B	P	C	S	Cu	Al	Co	Fe	Zr	Ni	Ca	100 g
VS F27	26.07	-	-	0.228	-	-	0.042	0.112	-	1.54	7.97	-	-	49.7	-	-	
3 689	39.5	0.32	0.09	0.40	36.4	0.0017	0.026	0.043	0.002	0.013	0.049	0.034	23.2	-	0.20	-	
CI HC25611	41.93	-	-	-	30.93	-	0.029	0.034	-	-	-	-	-	-	-	-	50 g
CI HC25633	44.06	0.29	-	-	33.90	-	0.013	0.045	0.002	-	1.00	-	-	-	-	-	50 g
VS F25	50.6	-	-	-	-	-	0.0088	-	0.0038	-	0.462	-	27.14	-	-	19.6	
GB 01431	57.02	0.426	-	-	-	-	0.025	0.61	0.048	-	1.95	-	8.49	-	-	30.03	
CI HC25610	59.02	-	-	-	-	-	0.026	0.30	0.028	-	1.30	-	10.17	-	-	27.12	50 g
VS F26	60.3	-	-	0.153	-	-	0.022	-	0.029	-	1.49	-	6.03	-	-	29.7	
6 119	62.5	-	-	-	-	-	0.034	0.30	(0.013)	-	0.48	-	3.00	-	-	31.5	RM

CRM	Si	Mn	P	S	C	Ni	Cu	Mg	Al	Ca	Ba	Fe	Sr	70 g
CI HC11605	53.46	0.075	0.014	0.039	0.054	0.023	0.079	0.22	2.34	13.22	14.02	13.57	0.235	SiCaBaSr

CRM	Si	Mn	P	S	C	Al	Ca	Ba	Fe	.. g
CI HC13601	58.89	0.0741	0.0129	0.052	0.73	1.55	12.70	12.61	9.26	SiCaBa
CI HC13602	32.01	0.197	0.017	0.0096	0.27	32.55	1.17	7.41	20.59	SiAlBa

CRM	SiC	Fe	Si	Ca	Al	Mg	Mn	Na	K	C	C (free)	O	N	100 g
EC 780-1	(86.1)	1.304	63.51	0.844	1.864	0.051	0.029	(0.050)	(0.011)	26.38	(0.563)	(5.24)	0.325	Siliziumkarbid
EC 781-1	-	(0.806)	35.56	(0.0433)	4.39	(0.0421)	(0.0274)	(0.0308)	(0.3765)	48.25	(37.22)	-	(0.0282)	Silicon Carbide

  

CRM	ppm Al	ppm B	ppm Ca	ppm Cr	ppm Cu	ppm Fe	ppm Mg	ppm Mn	ppm Na	ppm Ni	ppm Ti	ppm V	ppm Zr	ppm O	ppm C (free)	C (tot)	100 g
B S003	372	63	29.4	3.5	1.5	149	6.3	1.44	17.4	32.9	79	41.4	25.2	910	493	29.89	Siliziumkarbid Silicon Carbide

  

RM	Si (tot)	C (tot)	Al	Fe	Ca	Mg	C (free)	Ti	Mn	Si (free)	O	V	Cr	Ni	Zr	50 g
CJ R021	68.8	29.9	0.039	0.018	0.007	0.0021	0.86	0.010	<0.001	0.15	1.08	0.002	0.004	0.001	0.001	Siliziumkarbid
CJ R022	68.1	30.4	0.058	0.051	0.025	0.005	1.62	0.003	0.001	0.01	0.98	<0.001	0.006	0.001	0.001	Silicon Carbide
CJ R023	69.3	29.6	0.003	0.015	0.003	0.001	0.39	<0.001	<0.001	0.01	0.86	<0.001	0.001	0.001	<0.001	nur Satz set only

  

CRM	Si	C	ppm Al	ppm Cr	ppm Cu	ppm Fe	ppm Mn	ppm Mo	ppm Ti	ppm Y	50 g
JP 8001a	68.31	29.80	83.2	46.7	6.37	0.31	-	-	-	-	Siliziumkarbid
JP 8002a	68.01	29.93	189	61.9	11.5	130	1.60	109	47.7	0.58	Silicon Carbide

  

CRM	Co	Ta	Ti	C	W	100 g
3 887	10.35	-	-	(5.5)	(83)	Wolframkarbid, gesintert
3 888	24.7	4.77	-	(4.6)	(64)	Tungsten Carbide, sintered
3 889	9.50	4.60	(4.6)	(6.0)	(75)	

  

CRM	C (tot)	C (free)	Fe	O	100 g
5 352/1	6.154	0.036	0.0029	(0.11)	Wolframkarbid
EC 783-1	6.188	(0.04)	0.0022	(0.01)	Tungsten Carbide

  

CRM	Si	N	pmm Al	ppm Ca	ppm Fe	ppm Mg	ppm Mn	ppm Ni	ppm Ti	ppm Zr	50 g
JP 8004a	59.226	38.485	739.7	72.7	196.9	10.29	2.987	2.485	8.519	2.146	Siliziumnitrit; Silicon Nitride

  

CRM	C	N	ppm Al	ppm Ca	ppm Co	ppm Fe	ppm Mg	ppm Na	ppm W	100 g
B ED101	0.162	38.1	469	14.1	43.5	79.5	4.3	7.59	41.3	Siliziumnitrit; Silicon Nitride

  

RM	Si	N	Al	Fe	Ca	Mg	O	C	20 g
CJ R003	59.55	39.00	-	0.0042	-	-	1.27	0.096	Siliziumnitrit
CJ R004	59.41	38.58	0.035	0.028	0.0036	0.0026	1.67	0.214	Silicon Nitride
CJ R005	59.24	38.44	0.184	0.130	0.222	0.0040	1.65	0.170	nur Satz set only

CRM	Fe	Si	Al	Ca	Mg	Mn	Ti	P	S	Na	K	V	As	Pb	Zn	Cu
AS 007	66.19	2.25	0.173	0.014	0.015	<0.005	0.031	0.0045	0.0054	0.0085	0.065	0.0013	0.005	(0.0015)	(0.0039)	(0.0030)
	Cr	Ni	LOI	100 g												
	(0.0011)	(0.0010)	0.168													

CRM	Fe	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	V <sub>2</sub> O <sub>5</sub>	TiO <sub>2</sub>	MnO	P	S	Cu	Co	Ni	Ga	Cr	100 g
CM 1704	32.97	20.33	8.26	6.38	6.16	0.311	0.63	0.288	0.0100	0.687	0.020	0.018	0.0094	0.0032	0.0067	
CM 1705	27.55	25.47	10.29	7.50	6.17	0.258	9.72	0.264	0.0119	0.566	0.015	0.016	0.0083	0.0029	0.0099	
CM 1708	13.23	36.33	11.47	11.62	8.32	0.059	10.74	0.242	0.0115	0.446	0.0065	0.0098	0.0048	0.0016	0.0033	

CRM	Fe	Si	Ca	Al	Ti	Mg	Mn	P	S	Na	K	H <sub>2</sub> O	Cr	Ni	100 g
EC 601-1	36.76	8.95	4.05	2.33	0.114	1.21	0.370	0.590	0.065	-	-	-	-	-	
EC 603-1	53.65	1.28	(0.91)	4.20	0.137	(0.2)	0.440	0.084	0.087	-	-	-	-	-	
EC 604-1	65.69	1.27	(0.13)	0.93	0.060	(0.06)	0.092	0.053	0.015	-	-	-	-	-	
EC 606-1	59.66	1.04	1.04	0.34	0.019	0.32	2.59	0.027	0.033	-	-	-	-	-	
EC 607-1	30.89	3.07	13.74	2.48	0.123	0.77	0.254	0.529	0.050	-	-	-	-	-	
EC 609-1	30.52	7.83	6.87	2.26	0.118	2.00	0.472	0.608	1.000	-	-	-	-	-	
EC 610-1	47.46	3.17	(0.1)	1.96	0.015	1.86	0.581	0.007	0.189	-	-	-	1.84	1.48	
EC 677-1	51.54	11.78	0.038	0.32	0.013	0.012	0.016	0.019	-	0.007	0.008	0.43	-	-	
EC 679-1	24.27	3.43	18.15	2.05	0.106	0.73	0.300	0.555	0.095	-	-	-	-	-	

CRM	Fe	Si	Ca	Mg	Al	Ti	Mn	P	S	Na	K	F	V	Cr	Ni	C	Pb	100 g
EC 651-1	23.85	3.46	16.15	0.75	2.25	0.096	0.97	0.35	0.40	0.05	0.27	-	-	-	-	-	-	
EC 681-1	33.21	8.32	2.80	0.89	5.62	0.29	0.22	0.88	0.103	0.068	0.49	0.19	0.077	0.041	0.016	1.80	(0.007)	

CRM	Fe	SiO <sub>2</sub>	CaO	MgO	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	Mn	P	S	As	K <sub>2</sub> O	Na <sub>2</sub> O	Cu	F	Cr	V	100 g
EC 627-2	31.77	9.24	15.67	1.57	4.49	0.225	0.250	0.661	0.114	0.020	-	-	(0.002)	-	0.018	-	
EC 629-1	36.21	19.25	5.63	1.64	4.07	0.216	0.390	0.696	0.063	0.023	-	-	(0.001)	-	0.016	-	
EC 630-1	65.63	5.88	0.10	0.47	0.88	0.066	0.060	0.043	0.032	-	-	-	-	-	-	-	
EC 631-1	61.09	3.20	0.75	0.54	1.06	0.109	0.044	0.114	0.033	-	(0.04)	(0.04)	-	-	-	-	
EC 678-1	60.75	3.70	5.50	0.94	0.53	0.22	0.08	1.61	0.021	-	0.13	0.15	-	0.29	-	0.12	

CRM	Fe	SiO <sub>2</sub>	CaO	MgO	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	Mn	P	S	As	K <sub>2</sub> O	Na <sub>2</sub> O	Cu	Cr	Pb	Ni	Zn	100 g Co
EC 680-1	59.98	8.98	0.63	0.23	1.23	0.08	0.025	0.018	0.544	0.057	0.094	0.172	0.063	0.005	0.317	0.007	0.165	0.013



6.2.2

CRM	Fe	SiO <sub>2</sub>	CaO	MgO	Al <sub>2</sub> O <sub>3</sub>	Mn	P	S	100g										
G 261/1	67.54	3.18	0.30	1.40	0.59	(0.16)	(0.19)	(0.080)											
G 262/1	59.75	12.34	0.41	0.81	0.71	(0.04)	(0.016)	(0.005)											
G 263/1	52.14	22.82	0.17	0.17	1.14	(0.04)	(0.026)	(0.036)											
G 264/1	44.27	33.65	0.23	0.22	1.12	(0.04)	(0.026)	(0.055)											
G 265/1	37.74	37.02	1.50	0.53	3.10	(0.06)	(0.039)	(0.047)											
G 266/1	29.04	44.99	3.42	0.97	3.12	(0.08)	(0.030)	(0.104)											
G 267/1	19.57	53.92	4.85	1.23	4.05	(0.16)	(0.030)	(0.167)											
CRM	Fe	FeO	SiO <sub>2</sub>	CaO	Mn	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MgO	C	P	S	K <sub>2</sub> O	Na <sub>2</sub> O	V	Cr	Co	Ni	Zn	
G PI3.21	64.94	25.94	8.33	0.15	0.017	0.20	0.016	0.44	0.18	0.015	0.026	0.029	0.077	0.0005	(0.002)	0.0009	0.0024	(0.003)	
G PI3.22	65.50	26.82	7.56	0.26	0.026	0.095	0.02	0.46	0.047	0.015	0.047	0.058	0.069	0.0002	0.0019	0.0008	0.0014	0.0029	
G PI3.23	68.35	27.65	4.13	0.109	0.043	0.23	0.017	0.28	0.027	0.018	0.052	0.027	0.035	(0.002)	0.0020	0.0026	0.0002	0.0021	
G PI3.24	68.93	28.27	3.96	0.107	0.026	0.11	0.028	0.24	0.052	0.014	0.044	0.026	(0.04)	-	0.0025	0.003	0.0013	(0.003)	
G PI3.25	67.73	28.03	5.01	0.17	0.031	0.20	0.018	0.27	0.094	0.016	0.077	0.027	(0.03)	0.0018	0.0023	0.002	-	(0.003)	
	Pb	Cl	Ba	Cu	LOI	100 g													
	-	0.083	0.0019	-	1.99														
	0.0011	-	0.0013	-	2.25														
	0.0015	-	0.0020	-	2.49														
	0.0002	-	0.0024	0.0014	2.91														
	0.0017	-	0.0021	0.0010	2.53														
CRM	Fe	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	P	S	MnO	CaO	MgO	K <sub>2</sub> O	Ba	Zn	Cu	Co	Cr	Pb	Ni	V	
IP 123	65.1	2.76	0.46	0.056	0.026	(0.003)	0.094	3.313	0.043	0.013	0.004	0.0013	0.0010	0.0012	0.0056	0.0015	0.0014	0.0048	
IP 30	65.11	2.72	0.85	0.052	0.026	0.010	0.041	2.61	0.28	-	-	-	-	-	-	-	-	-	
CRM	Fe	CaO	MnO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	S	FeO	Fe <sub>2</sub> O <sub>3</sub>	Cu	Na <sub>2</sub> O	K <sub>2</sub> O	V <sub>2</sub> O <sub>5</sub>	P	150 g		
J 28	65.86	0.30	0.059	4.20	0.60	0.30	0.20	0.102	0.004	2.4	91.5	0.002	0.106	0.120	0.21	0.045			
J 30	34.67	3.39	0.15	38.6	3.30	3.72	0.11	0.042	0.028	11.9	36.3	0.014	0.24	0.78	<0.005	0.019			
CRM	Fe	CaO	MnO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	TiO <sub>2</sub>	P	S	Na <sub>2</sub> O	K <sub>2</sub> O	V <sub>2</sub> O <sub>5</sub>	ppm Co	ppm Cr	ppm Cu	ppm Ni	ppm Sn	ppm Zn	10
J 41	70.83	0.177	0.062	0.60	0.214	0.46	0.207	0.025	0.007	0.029	0.016	0.190	102	44	9.7	144	3.6	19	
CRM	Fe	Si	Al	Ca	Mg	Na	K	Mn	Ti	S	P	200 g							
T SCH1	60.73	3.78	0.509	0.029	0.02	0.019	0.026	0.777	0.031	0.007	0.054								
CRM	Fe	CaO	Mn	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	TiO <sub>2</sub>	S	Na	P	K	200 g							
T MW1	66.08	0.053	(0.016)	4.6	0.3	0.034	(0.13)	(0.011)	(0.011)	0.011	0.011								
CRM	Fe	FeO	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Mn	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P	CO <sub>2</sub>	S	Cu	Zn	Ag	Ge		
VS 5403-90	62.74	25.74	7.14	0.055	0.73	0.162	0.65	0.89	-	-	-	0.39	3.89	0.32	0.029	0.00059	-		
VS 5405-90	54.83	-	16.23	0.092	2.04	0.62	0.29	-	-	0.33	0.034	-	0.018	-	0.089	-	0.00051		
VS 5407-90	38.15	-	12.46	0.083	2.62	10.42	0.23	5.78	0.15	0.51	-	4.16	0.024	-	0.20	-	0.00219		
	Pb	Ba	100 g																
	-	-																	
	0.23	-																	
	0.15	0.74																	

CRM	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	CO <sub>2</sub>	F	FeO	H <sub>2</sub> O	K <sub>2</sub> O	MgO	MnO	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	S	SiO <sub>2</sub>	TiO <sub>2</sub>	100 g		
T FER1	49.88	0.52	3.29	1.39	(0.06)	23.34	0.41	0.02	0.30	0.22	0.03	2.39	0.26	16.95	0.03			
T FER2	22.50	5.16	2.17	0.07	(0.04)	15.24	0.98	1.33	2.10	0.12	0.51	0.27	0.17	49.21	0.18			
T FER3	29.40	0.09	0.84	1.20	(0.01)	13.63	(0.2)	0.03	1.02	0.08	0.03	0.07	(0.03)	53.61	0.01			
T FER4	22.70	1.70	2.23	4.86	(0.02)	15.54	0.72	0.29	1.41	0.19	0.05	0.13	0.11	50.07	0.07			
CRM	Fe	FeO	MgO	SiO <sub>2</sub>	CaO	Al <sub>2</sub> O <sub>3</sub>	S	P	C(carb)	100 g								
VS P9/3	33.01	40.0	10.9	2.29	2.55	0.64	0.205	0.0056	10.6	Eisenerz (Siderit); Iron Ore (Siderite)								
CRM	Fe	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MnO	CaO	MgO	P	S	TiO <sub>2</sub>	V <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Na <sub>2</sub> O	As	Pb	Zn	BaO	FeO	100 g
VS P7/1	41.94	14.09	4.84	2.76	1.73	0.78	1.10	0.162	0.199	0.121	0.358	0.123	0.115	0.0106	0.0321	0.23	(<1)	
CRM	Fe	FeO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	Mn	P	S	Cu	Ti	K <sub>2</sub> O	Na <sub>2</sub> O	Co	Ni	100 g		
GB 07221a	64.29	24.18	3.48	0.91	0.78	1.41	0.117	0.012	0.397	0.056	0.066	0.18	0.061	0.0068	0.0083	Magnetit; Magnetite		
GB 07223a	61.73	1.51	9.82	0.48	0.11	0.055	0.027	0.024	0.036	0.061	0.041	0.056	0.0056	0.0048	0.0023	Haematit; Haematite		
CRM	Fe	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	P	S	Ti	Co	Ni	V <sub>2</sub> O <sub>5</sub>	TiO <sub>2</sub>	MnO	Cr	Ga	100 g		
GB 07224	32.97	20.33	8.26	6.38	6.16	0.0100	0.687	0.020	0.018	0.0094	0.313	10.63	0.288	0.0067	0.0032	V-Ti-Magnetit		
GB 07225	27.55	25.47	10.29	7.50	6.17	0.0119	0.566	0.015	0.016	0.0083	0.258	9.72	0.264	0.0099	0.0029	V-Ti-Magnetite		
GB 07226a	52.66	4.11	4.46	1.04	3.21	0.022	0.556	0.019	0.020	0.012	0.572	12.66	0.349	0.024	0.0042			
GB 07227	13.23	36.33	11.47	11.62	8.32	0.0115	0.446	0.0065	0.0098	0.0048	0.059	10.74	0.242	0.0033	0.0016			
CRM	Fe	CaO	MnO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	TiO <sub>2</sub>	S	Cu	Na <sub>2</sub> O	K <sub>2</sub> O	P	Pb	V	Cr	Ni	Mn	100 g
X 11	66.16	0.045	0.015	3.10	1.38	0.021	0.064	0.012	0.0011	0.015	0.14	0.042	0.018	0.040	0.041	0.0030	0.113	
X 12	66.63	1.09	0.22	0.34	0.77	2.80	0.72	0.069	0.0502	0.012	0.12	0.0477	0.025	0.0520	0.021	0.0281	0.17	
CRM	Fe	CaO	MnO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	TiO <sub>2</sub>	S	Na <sub>2</sub> O	K <sub>2</sub> O	P	100 g						
3 690	66.85	0.20	0.23	3.71	0.18	0.18	0.022	0.003	0.003	0.0030	0.011							
3 692	59.58	0.023	0.46	10.14	1.41	0.035	0.045	0.005	0.008	0.039	0.039							
3 693	65.11	0.016	0.091	3.87	1.02	0.013	0.035	0.005	0.0028	0.0028	0.0056							
CRM	Fe	FeO	CaO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	TiO <sub>2</sub>	S	Cu	P	As	Ni	Cr	100 g				
9 801-6	61.75	(1.0)	(0.014)	1.95	1.09	(0.032)	0.051	0.0093	(0.002)	0.060	-	0.0033	(0.005)					
9 803-6	65.50	(0.27)	(0.018)	2.88	1.22	0.020	0.059	(0.011)	(0.001)	0.048	-	(0.001)	0.010					
9 804-2	66.93	(0.29)	Ca=0.0490	Si=1.17	Al=0.51	Mg=0.0099	Ti=0.023	0.0132	-	0.050	0.0019	0.0028	0.0244					
9 805-1	68.04	-	0.028	0.49	1.02	0.033	0.029	(0.003)	(0.001)	0.044	-	-	-					
RM	Fe	CaO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	TiO <sub>2</sub>	MnO	P <sub>2</sub> O <sub>5</sub>	S	Na <sub>2</sub> O	K <sub>2</sub> O	100 g						
6 103	59.41	1.27	8.12	0.96	0.34	0.04	0.61	0.133	0.065	(0.05)	(0.07)							

CRM	Fe	Mn	SiO <sub>2</sub>	CaO	MgO	Al <sub>2</sub> O <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	P	100 g									
N 101	45.67	0.930	14.08	14.17	3.10	1.84	0.070	0.050	N 101-109	nur im Satz erhältlich available as set only								
N 102	36.66	0.140	8.33	17.41	11.58	1.32	0.055	0.026										
N 103	50.60	0.056	14.38	6.75	4.79	1.42	0.260	0.038										
N 104	54.48	0.072	16.86	2.07	1.16	1.74	0.480	0.008										
N 105	51.90	0.035	17.01	4.43	3.06	1.78	0.076	0.055										
N 106	34.88	0.116	12.36	26.46	6.67	2.02	0.250	0.264										
N 107	39.41	0.165	14.73	18.05	4.60	2.04	0.110	0.137										
N 108	32.48	0.762	14.11	28.53	2.29	2.15	0.100	0.142										
N 109	32.80	1.370	14.38	29.53	2.29	2.17	0.530	0.114										
N 125	46.12	0.490	10.43	8.78	5.50	1.97	0.250	0.064	N 125-127	nur im Satz erhältlich available as set only								
N 126	45.17	0.470	10.42	9.55	5.93	2.86	0.240	0.068										
N 127	46.67	0.510	10.89	8.70	4.58	3.50	0.270	0.075										
CRM	Fe	FeO	MnO	SiO <sub>2</sub>	CaO	MgO	Al <sub>2</sub> O <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	Zn	Cr	Na	K	C	S	Pb	100 g		
N 1121	51.55	0.70	0.045	20.83	0.17	0.24	2.60	0.13	0.017	0.016	0.11	0.16	-	-	-			
N 1122	63.72	26.21	0.04	9.14	0.36	0.51	0.19	0.038	0.023	0.015	0.07	-	0.50	0.052	-			
N 1123	60.50	1.60	0.04	11.51	0.31	0.87	0.39	0.038	-	0.008	0.04	0.10	-	-	-			
N 1124	67.90	0.45	0.20	0.63	0.15	0.04	0.54	0.09	-	0.014	0.009	0.01	0.19	-	-			
N 1125	66.57	0.48	0.06	2.87	-	0.06	0.76	0.07	-	0.020	-	0.01	0.07	-	-			
N 1126	65.40	1.45	0.08	2.85	0.88	0.26	1.01	-	0.003	-	0.02	0.04	0.13	-	-			
N 1127	52.12	10.10	4.27	7.07	2.44	7.62	1.71	-	0.011	0.022	0.03	0.38	0.43	-	0.011			
CRM	Fe	FeO	SiO <sub>2</sub>	Mn	P	S	Cu	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	V	Cr	Ni	Zn	Na <sub>2</sub> O	K <sub>2</sub> O	100 g
9 814-1	65.70	-	3.88	0.025	0.036	0.845	0.036	0.060	0.47	0.78	1.43	0.045	-	0.007	0.032	0.117	0.103	
9 820-2	57.00	-	5.75	0.077	0.036	0.033	(0.001)	0.25	2.78	0.12	0.084	(0.005)	(0.002)	(0.003)	0.009	0.019	(0.009)	70 g
9 850-4	65.67	(0.30)	4.12	0.019	0.013	0.006	0.008	0.056	0.40	0.41	0.79	0.025	(0.003)	(0.006)	(0.007)	0.129	0.075	
9 852-2	66.83	-	1.70	0.077	0.014	(0.002)	0.006	0.48	0.38	0.13	1.15	0.46	(0.004)	0.045	(0.005)	0.030	0.007	
CRM	Fe	Si	Ca	Al	Ti	Mg	Mn	P	S	100 g								
EC 611-1	62.22	2.07	2.85	0.69	0.035	0.32	1.97	0.030	0.008									
EC 612-1	42.43	5.94	12.06	3.00	0.151	1.20	0.363	0.885	0.053									
CRM	Fe	Si	Ca	Mg	Al	Ti	Mn	P	S	Na	K	F	V	Cr	Zn	100 g		
EC 676-1	39.76	6.40	12.78	1.16	3.40	0.19	0.83	0.59	0.12	0.095	0.43	0.10	0.070	-	-			
EC 683-1	56.06	3.38	5.70	1.04	1.30	0.097	0.462	0.148	-	0.045	0.148	0.020	0.026	0.018	0.010			

CRM	Fe	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	P	S	Mn	Cu	100 g						
GB 07218	65.75	2.65	1.08	0.042	0.045	0.047	0.018	0.028	0.003							
CRM	Fe	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	Ti	Mn	P	S	Na <sub>2</sub> O	K <sub>2</sub> O	FeO	Cu	100 g		
GB 07219a	54.24	6.38	2.45	11.03	3.21	0.087	0.066	0.060	0.014	0.054	0.084	(9.06)	0.005			
CRM	Fe	FeO	CaO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	P <sub>2</sub> O <sub>5</sub>	S	P	Pb	100 g					
2 Sinter	48.24	14.16	13.58	12.45	1.30	3.23	(0.064)	0.071	(0.028)	(0.01)	Sinter					
RM	Fe	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	TiO <sub>2</sub>	MnO	P	S	Na	K	100 g				
6 104A	54.50	7.95	1.10	10.40	1.30	0.10	1.05	0.07	0.012	0.02	0.13	Eisenerzsinter;	Iron Ore Sinter			
CRM	Fe	SiO <sub>2</sub>	CaO	MgO	Al <sub>2</sub> O <sub>3</sub>	MnO	S	P	Na <sub>2</sub> O	Cu	TiO <sub>2</sub>	Co	100 g			
3 691	90.8	3.7	0.63	0.52	1.22	0.043	0.008	0.006	0.186	0.032	0.27	0.030	Eisenerzkonzentrat;	Iron Ore Concentrate		
CRM	Fe	Si	Ca	Al	Ti	Mg	Mn	P	S	Na	K	Ni	V	Co	C	100 g
EC 685-1	91.10	0.795	0.140	0.320	0.220	0.239	0.042	0.017	0.0031	0.077	0.042	0.018	0.144	0.013	1.47	Eisenerz, vorreduziert Iron Ore, prereduced
CRM	Fe	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	Mn	P	S	Cu	Ti	K <sub>2</sub> O	Na <sub>2</sub> O	Co	Ni	100 g	
GB 07220a	61.97	4.92	0.74	3.54	1.64	0.113	0.014	0.039	0.011	0.040	0.053	0.031	0.0080	0.015	Pellet	
CRM	Fe	FeO	SiO <sub>3</sub>	CaO	MgO	Al <sub>2</sub> O <sub>3</sub>	S	P	MnO	TiO <sub>2</sub>	V <sub>2</sub> O <sub>5</sub>	Co	100 g			
VS P3/1	58.7	2.52	3.74	4.47	2.49	2.50	0.0050	0.0026	0.230	2.47	0.56	0.020	Pellet			
CRM	Fe	Fe(met)	SiO <sub>2</sub>	CaO	MgO	Al <sub>2</sub> O <sub>3</sub>	P	S	Na <sub>2</sub> O	K <sub>2</sub> O	C	Pb	Zn	Cu	100 g	
VS P10/1	91.1	87.6	4.24	1.60	0.29	0.28	0.010	0.0063	0.089	0.053	1.66	0.00017	0.0017	0.0023	Vorreduzierte Pellets Prereduced Pellets	



B R E I T L Ä N D E R - E I C H P R O B E N

6.3.2

Verschiedene Erze (Various Ores)  
Erzaufbereitungsprodukte 4Ore Processing Products)

CRM	Mn	MnO <sub>2</sub>	Fe	Co	Ni	Cu	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	Ba	Sr	H <sub>2</sub> O	
GB 07249	20.92	32.71	18.71	0.35	0.36	0.28	13.30	3.53	1.71	0.73	2.00	2.81	2.12	0.68	0.14	0.12	9.40	
	CO <sub>2</sub>	C(org)	S	Cl	ppm As	ppm B	ppm Ce	ppm Cr	ppm Dy	ppm Er	ppm Eu	ppm F	ppm Ga	ppm Gd	ppm Ho	ppm La	ppm Li	
	(0.42)	(0.07)	0.18	0.85	179	215	998	10.0	48.9	26.4	12.7	(289)	5.5	56.2	9.9	239	11.1	
	ppm Lu	ppm Mo	ppm Nb	ppm Nd	ppm Pb	ppm Pr	ppm Rb	ppm Sb	ppm Sc	ppm Sm	ppm Tb	ppm Th	ppm Tl	ppm Tm	ppm U	ppm V	ppm W	
	3.5	371	(64.9)	238	948	55.1	8.3	28.1	13.4	51.9	8.6	32.5	133	3.6	9.3	588	61.0	
	ppm Y	ppm Yb	ppm Zn	ppm Zr	30 + 60 g													
	159	24.3	563	659	Manganknolle, polymetallisch; Polymetallic Mn-Nodule													
CRM	Mn	SiO <sub>2</sub>	Fe	Ni	Co	Cu	100 g											
NM 2388	21.28	16.07	14.94	0.71	0.14	0.49	Manganknolle; Fe-Mn-Nodule											
CRM	MnO	MnO <sub>2</sub>	Li	C(org)	CO <sub>2</sub> (carb)	Na <sub>2</sub> O	MgO	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	S	Cl	K <sub>2</sub> O	CaO	Sc	TiO <sub>2</sub>	V	Cr
VS 5373-90	29.91	35.8	0.007	0.18	0.39	2.61	2.74	5.21	16.20	0.65	0.12	0.8	1.18	2.77	0.0012	1.47	0.040	0.0017
VS 5374-90	35.09	41.7	0.014	0.18	0.43	2.94	3.40	5.68	16.60	0.68	0.10	0.7	1.27	2.82	0.0011	0.74	0.043	0.0018
VS 5375-90	25.16	31.1	0.004	0.22	0.60	2.40	2.24	5.46	14.50	0.80	0.16	0.9	0.83	3.01	0.0013	1.91	0.048	0.0019
VS 5376-90	19.85	24.2	0.0019	-	0.50	2.24	2.29	6.71	22.30	1.61	0.16	-	1.18	5.13	0.0019	1.56	0.054	0.0067
	Fe <sub>2</sub> O <sub>3</sub>	Co	Ni	Cu	Zn	As	Rb	Sr	Y	Zr	Nb	Mo	Cd	Ba	La	Ce	Nd	Sm
	17.21	0.31	0.84	0.51	0.077	0.011	0.0016	0.090	0.016	0.060	0.0048	0.0043	0.0009	0.19	0.015	0.05	0.015	0.004
	9.28	0.220	1.37	1.01	0.12	0.006	0.0021	0.064	0.011	0.032	0.0020	0.052	0.0017	0.18	0.009	0.020	0.008	0.0022
	24.87	0.47	0.422	0.22	0.058	0.017	0.0010	0.11	0.014	0.060	0.009	0.033	0.0005	0.17	0.014	0.09	0.014	0.003
	22.13	0.27	0.34	0.13	0.060	0.014	0.0019	0.11	0.016	0.055	0.006	0.035	-	0.16	0.012	0.10	0.010	0.0027
	Yb	Pt	Au	Pb	Th	Pd	U	Be	Tl	LOI	50 g							
	0.0021	0.000019	0.0000008	0.017	0.0031	-	0.0005	-	-	14.8	Manganknolle							
	0.0013	0.000010	0.0000005	0.040	0.0017	-	0.0004	-	-	15.3	Maganese Nodule							
	0.0014	0.000021	0.0000010	0.098	0.0038	0.0000003	0.0008	-	-	13.8								
	0.0006	-	-	0.105	0.0028	-	0.0006	0.0019	0.010	11.4								
CRM	MnO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub> (t)	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	TiO <sub>2</sub>	ppm Ba	ppm Co	ppm Cu	ppm Mo	ppm Ni	ppm Pb	ppm Sr	
UG NOD-A-1	23.9	3.81	3.87	15.6	15.4	4.76	1.0	0.6	1.40	0.53	1670	3110	1100	448	6360	846	1750	
UG NOD-P-1	37.6	13.9	4.8	8.3	3.1	3.3	2.2	1.2	0.46	0.5	3350	2240	11500	760	13400	560	680	
	ppm V	ppm Zn	30 g															
	770	590	Manganknolle															
	570	1600	Manganese Nodule															
RM	MnO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub> (t)	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	ppm As	ppm Ba	ppm Ce	ppm Co	Manganknolle; Manganese Nodule 100 g			
JG JMn-1	33.09	14.11	4.30	14.40	2.91	3.12	2.80	0.94	1.06	0.54	75.4	1714	277	1732	ppm Cr	ppm Cu	ppm Er	ppm Eu
	ppm La	ppm Mo	ppm Nd	ppm Ni	ppm Pb	ppm Rb	ppm Sb	ppm Sm	ppm Sr	ppm Tb	ppm Th	ppm Tm	ppm U	ppm V	ppm Y	ppm Yb	ppm Zn	ppm Zr
	122	318	137	12632	430	10.9	37.5	30.2	792	4.8	11.7	2.1	5.0	424	111	13.8	1068	344

B R E I T L Ä N D E R - E I C H P R O B E N

Verschiedene Erze (Various Ores)  
Erzaufbereitungsprodukte (Ore Processing Products) 6.3.3

CRM	Cr <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	Na <sub>2</sub> O	K <sub>2</sub> O	H <sub>2</sub> O	CO <sub>2</sub>	S	NiO	CoO	V <sub>2</sub> O <sub>5</sub>
GB 07201	49.44	4.08	12.10	(1.84)	(13.06)	15.66	0.36	0.12	0.003	0.28	0.025	0.11	1.55	1.06	0.040	0.14	0.023	0.14
GB 07202	48.97	4.20	13.37	(3.86)	(9.13)	16.95	0.66	0.077	0.003	0.12	0.009	0.010	1.63	0.67	0.003	0.18	0.022	0.16
	Pd	Rh	Ir	Os	Ru	ppm Pt	200 g											
	0.007	0.012	0.090	0.175	0.305	0.010	Chromit											
	0.002	0.017	0.333	0.569	0.193	0.019	Chromite											
CRM	Cr <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe	P	S	100 g									
CI DC25001	32.79	14.64	9.29	21.49	1.04	9.53	0.0055	0.012	Chromit									
CI DC25002	36.31	11.71	10.97	20.59	0.82	9.71	0.0072	0.0017	Chromite									
CI DC25003	38.80	9.63	12.76	12.92	0.76	17.58	0.0047	0.010										
CI DC25004	45.20	7.03	10.50	17.28	0.84	11.19	0.0039	0.016										
CI DC25005	50.95	3.56	13.12	9.87	0.17	12.56	0.0059	0.005										
CI DC25006	55.51	2.67	10.30	16.84	0.19	9.73	0.0042	0.004										
CRM	Cr <sub>2</sub> O <sub>3</sub>	Cr	Al <sub>2</sub> O <sub>3</sub>	CaO	Fe	MgO	MnO	SiO <sub>2</sub>	Ti	TiO <sub>2</sub>	V <sub>2</sub> O <sub>5</sub>	P	S	FeO	V	100 g		
5 308	41.5	-	19.4	0.34	-	16.4	(0.14)	4.25	-	(0.16)	-	-	-	15.3	-	Chromerz		
X 9	46.45	-	15.17	(0.16)	19.41	10.85	0.21	0.61	-	0.56	0.32	0.0024	0.0028	(17.15)	-	Chromium Ore		
VS P14/3	42.8	-	6.43	0.126	8.59	23.7	-	10.7	-	-	-	0.0012	0.043	9.4	0.053			
9 870-2	48.14	-	11.62	-	14.04	15.54	-	3.96	-	-	-	(0.002)	0.018	-	-			
X 8	48.97	-	10.57	0.26	14.13	14.69	0.25	4.30	-	0.24	0.14	0.0039	0.0341	(13.9)	-			
IG 30	-	23.95	-	-	11.20	16.63	-	2.76	0.14	-	-	-	-	-	-	55 g		
RM	Cr <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	LiO <sub>2</sub>	Mn <sub>3</sub> O <sub>4</sub>	LOI	25 g					
CR AN22	34.0	3.45	0.26	29.3	15.4	0.39	16.5	0.08	0.03	0.02	0.14	-	Chromerz					
CR 2CAS5	35.8	5.55	0.29	23.2	16.4	0.57	16.8	0.03	0.06	<0.01	0.13	0.76	Chrome Ore					
CRM	Mo	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MnO	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	F	S	W	ppm Cu	ppm Pb	ppm Zn	ppm Cd	ppm Co
GB 07238	1.51	34.10	21.34	3.46	0.13	1.40	31.44	0.86	0.046	0.075	4.08	1.64	0.36	93.6	18.7	65.5	0.12	11.8
GB 07239	0.11	46.67	14.66	7.27	0.36	1.49	23.03	1.83	0.82	0.77	1.33	0.48	0.10	48.6	26.1	120	0.09	13.5
	ppm Ni	ppm As	ppm Sb	ppm Bi	ppm Sn	ppm Ag	ppm Ga	ppm In	ppm Ge	ppm Se	ppm Te	ppm Tl	ppm La	ppm Ce	ppm Pr	ppm Nd	ppm Sm	ppm Eu
	17.8	1.6	1.2	2.2	86.7	0.9	25.1	2.9	19.0	2.1	0.40	0.06	7.1	20.8	3.0	11.3	2.1	0.59
	20.9	1.0	0.26	1.0	33.2	0.12	23.1	1.3	12.4	0.27	0.14	0.21	37.4	60.3	7.4	29.8	6.4	1.5
	ppm Gd	ppm Tb	ppm Dy	ppm Ho	ppm Er	ppm Tm	ppm Yb	ppm Lu	ppm Y	ppm Sc	ppm Th	ppm Cr	ppm Li	ppm Re	100 g			
	1.9	0.34	1.8	0.36	1.0	0.14	1.0	0.16	11.4	3.4	2.3	(24)	(3.2)	(0.35)	Mo-Erz			
	5.8	0.98	5.8	1.2	3.2	0.44	2.8	0.41	34.2	8.4	9.7	(35)	(13)	(0.12)	Mo-Ore			

CRM	Mo	WO <sub>2</sub>	Bi	Cu	Ba	Be	Zr	Nb	ppm Ag	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	MgO	CaO	
VS 7025-93	0.067	0.040	0.0051	0.077	0.27	0.0019	0.013	0.0013	0.8	(70.74)	(0.41)	(12.40)	(3.92)	(1.98)	(0.04)	(0.94)	(0.35)	
	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	CO <sub>2</sub>	F	S	H <sub>2</sub> O+	100 g										
	(2.07)	(5.79)	(0.09)	(<0.20)	(0.54)	(1.04)	(0.87)	Mo-Erz/Ore										
CRM	Ni	Cu	Co	Fe	50 g													
IG 21	1.97	0.798	0.069	23.40	Ni-Erz/Ore													
IG 22	1.255	0.106	0.051	22.73	45 g													
CRM	Ni	ppm Pt	ppm Pd	ppm Rh	ppm Ir	ppm Ru	ppm Os	ppm Au	ppm Ag	100 g								
VS 1702-86	5.4	8.6	30.0	0.98	0.11	0.34	0.06	0.84	23.4	Nickelkonzentrat; Nickel Concentrate								
CRM	Ni	Co	S	Cu	ppm As	ppm Pb	ppm Zn	ppm Cd	ppm Sb	ppm Bi	ppm Ag	ppm Ga	ppm Se	ppm Te	ppm Li	ppm La	ppm Ce	ppm Pr
GB 07283	4.33	0.069	10.44	0.70	5.4	30.2	55.5	0.20	0.43	6.4	0.73	13.2	29.0	2.3	17.7	29.4	62.2	7.0
	ppm Nd	ppm Sm	ppm Eu	ppm Gd	ppm Tb	ppm Dy	ppm Ho	ppm Er	ppm Tm	ppm Yb	ppm Lu	ppm Y	100 g					
	26.4	5.5	0.82	5.0	0.88	4.6	0.85	2.1	0.32	1.8	0.24	22.7	Ni-Co Erz; Ni-Co Ore					
CRM	Nb	Ca	Fe	Si	Mg	Mn	P	Sr	Al	S	K	Na	Zn	LOI	200 g			
T OKA1	0.37	(31.3)	(2.8)	(2.4)	(1.3)	(1.1)	(1.1)	(1.0)	(0.9)	(0.6)	(0.3)	(0.2)	(0.05)	(31.9)	Nb-Erz/Ore			
CRM	Ta	Ta <sub>2</sub> O <sub>5</sub>	SiO <sub>2</sub>	Al	Na	K	Ca	Fe	Mg	Mn	Nb	Sn	200 g					
T TAN1	0.236	0.288	(71.5)	(8.2)	(4.6)	(1.5)	(0.5)	(0.2)	(0.02)	(0.02)	(0.02)	(0.01)	Ta-Erz/Ore					
CRM	Sb	As	Si	Al	S	Fe	K	Ca	Mg	Cd	Na	Pb	Cu	H <sub>2</sub> O	LOI	200 g		
T CD1	3.57	0.66	(32.9)	(5.5)	(3.1)	(2.8)	(1.8)	(1.4)	(0.6)	(0.2)	(0.1)	(0.02)	(<0.01)	(0.2)	(4.0)	Sb-Erz		
CRM	W	WO <sub>3</sub>	Mo	Bi	Sn	Ag	Si	SiO <sub>2</sub>	Al	F	Fe	Ca	Cu	S	Zn	As	Sn	Mg
T MP2	0.65	-	0.281	0.245	0.043	4.9ppm	-	(76.1)	(5.4)	(4.1)	(3.7)	(2.7)	(0.9)	(0.7)	(0.4)	(0.2)	-	(0.04)
IG 27	0.036	-	0.276	-	-	-	-	-	-	-	1.76	-	-	-	-	-	-	-
3 2430	-	70.26	0.22	0.078	-	-	-	-	(0.4)	-	(1.0)	-	(0.01)	0.26	-	0.002	-	(0.5)
3 277	-	67.4	(0.06)	-	(0.54)	-	(0.85)	-	-	-	(7.4)	(0.37)	-	(0.25)	-	-	(0.54)	-
	Pb	C	H <sub>2</sub> O	Mn	Nb	O <sub>2</sub>	P	Ta	Ti	K	Na	200 g						
	(0.04)	(0.02)	(<0.1)	-	-	-	-	-	-	-	-	WMo-Erz/Ore						
	-	-	-	-	-	-	-	-	-	-	-	65 g						
	-	-	-	(0.12)	-	-	0.017	(<0.01)	-	(0.16)	(0.02)	100 g						
	(0.07)	-	-	(10.0)	(1.00)	(21.4)	(0.03)	(0.20)	(2.2)	-	-	100 g						
												Wolframkonzentrat; Tungsten Concentrate						



CRM	WO <sub>3</sub>	Mo	Bi	Sn	Be	Cu	Pb	Zn	Zr	Nb	Ge	Ag	100 g
VS 1710-79	71.6	-	0.146	-	-	-	-	-	-	-	-	-	<b>Wolframkonzentrat; Tungsten Concentrate</b>
VS 1711-79	0.036	0.0026	0.0044	0.0071	0.0022	-	-	-	-	-	-	-	<b>Wolframerz; Tungsten Ore</b>
VS 1712-79	6.00	0.26	1.30	0.89	0.021	0.077	0.77	0.28	-	-	0.00039	0.01503	
VS 1713-79	0.17	0.011	0.015	0.028	0.0058	-	-	-	-	-	0.00029	0.00055	
VS 1714-79	1.04	0.041	0.089	0.113	-	-	-	-	-	-	-	0.00103	
VS 1715-79	0.60	0.026	0.054	0.068	0.013	0.020	0.049	0.038	-	-	0.00031	-	
VS 7026-93	0.11	0.00098	0.018	-	0.0022	0.052	-	-	0.017	0.0015	0.00036	0.00012	
VS 7027-93	0.17	0.0093	0.015	-	-	-	-	-	0.013	0.0014	-	-	

CRM	WO <sub>3</sub>	Mo	Bi	Cu	Fe	100 g
VS 2039-81	0.22	0.0026	0.023	0.27	2.47	<b>Wolframerz</b>
VS 2040-81	0.076	0.016	0.0058	0.053	0.94	<b>Tungsten Ore</b>
VS 2041-81	0.076	0.016	0.0058	0.053	0.94	
VS 2042-81	0.38	0.039	0.0032	0.105	4.17	

CRM	W	200 g
T CT1	1.04	<b>W-Erz/Ore</b>
T BH1	0.422	
T TLG1	0.083	

CRM	W	Cu	Pb	Zn	S	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MnO	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	F	ppm Cd	ppm Co	ppm Ni
GB 07240	0.015	0.079	0.26	0.29	3.1	13.27	7.79	8.24	0.079	0.97	37.73	1.45	1.94	0.16	9.91	26.1	2.7	4.1
GB 07241	0.22	0.096	0.00812	0.010	1.90	71.27	5.60	11.15	0.044	0.090	4.17	0.14	1.58	0.12	4.84	0.94	3.7	2.8
	ppm As	ppm Sb	ppm Bi	ppm Sn	ppm Mo	ppm Ag	ppm Ga	ppm In	ppm Ge	ppm Se	ppm Te	ppm Tl	ppm La	ppm Ce	ppm Pr	ppm Nd	ppm Sm	ppm Eu
	1800	5.1	110	1400	4.2	8.3	17.8	8.7	2.5	0.39	0.66	5.0	5.0	10.0	1.1	4.0	0.79	0.15
	69.9	3.1	680	1700	980	1.8	16.5	1.3	11.2	0.96	2.9	1.8	23.7	60.3	7.9	32.9	12.5	0.17
	ppm Gd	ppm Tb	ppm Dy	ppm Ho	ppm Er	ppm Tm	ppm Yb	ppm Lu	ppm Y	ppm Sc	ppm Th	ppm Cr	ppm Li	ppm Rb	ppm Re	ppm Cs	100 g	
	0.64	0.15	0.46	0.11	0.23	0.04	0.28	0.06	2.8	1.8	2.2	(6.5)	(200)	(800)	(0.12)	(36)	<b>W-Erz/Ore</b>	
	14.8	3.3	20.7	4.5	13.1	2.2	14.9	2.4	128	5.4	28.3	(30)	(300)	(500)	(0.08)	(41)		

B R E I T L Ä N D E R - E I C H P R O B E N  
6.3.6

Verschiedene Erze (Various Ores)  
Erzaufbereitungsprodukte (Ore Processing Products)

CRM	Cu	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MnO	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	F	Zn	S	ppm Pb	ppm Cd	ppm Co	ppm Ni	ppm As
GB 07233	1.15	9.27	55.58	1.73	0.079	0.60	9.61	3.91	0.071	0.044	0.079	0.059	0.72	9.1	0.42	76.0	9.6	4.2
GB 07234	0.19	53.36	12.25	15.18	0.50	0.12	4.95	1.30	2.71	3.21	0.080	0.013	0.14	13.0	0.14	16.9	5.6	1.5
	ppm Sb	ppm Bi	ppm Sn	ppm W	ppm Mo	ppm Ag	ppm Ga	ppm In	ppm Ge	ppm Se	ppm Te	ppm Tl	ppm La	ppm Ce	ppm Pr	ppm Nd	ppm Sm	ppm Eu
	0.36	1.5	11.1	4.1	1.4	3.9	22.6	1.4	0.89	5.1	0.62	0.06	7.5	13.2	1.4	4.7	1.0	0.28
	0.23	0.43	3.8	3.9	2.4	0.70	22.6	0.25	0.93	0.89	0.13	0.36	40.3	72.6	8.1	29.4	5.1	1.3
	ppm Gd	ppm Tb	ppm Dy	ppm Ho	ppm Er	ppm Tm	ppm Yb	ppm Lu	ppm Y	ppm Sc	ppm Th	ppm Cr	ppm Li	ppm Ba	ppm Cs	100 g		
	1.1	0.2	1.1	0.26	0.78	0.11	0.89	0.16	7.3	1.8	0.90	(7)	(9)	-	-	<b>Kupfererz</b>		
	3.6	0.48	2.4	0.48	1.3	0.18	1.2	0.20	11.8	5.4	8.8	(10)	(15)	(800)	(10)	<b>Copper Ore</b>		
RM	Cu	Zn	Pb	Fe	Ag	As	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	200 g							
IM MR1	1.23	0.040	0.15	1.41	0.0058	0.028	(60)	(4.7)	(3.8)	(9.6)	<b>Kupfererz</b>							
IM MR2	1.61	0.025	0.085	0.88	0.0029	0.013	(22)	(4.9)	(8.2)	(25)	<b>Copper Ore</b>							
IM MR3	1.87	0.047	0.16	1.10	0.0044	0.0057	(49)	(4.4)	(5.3)	(13)								
CRM	Cu	S	MgO	As	Pb	Zn	Ag	Au	F	80 g								
CI DC35006	16.69	0.673	1.65	0.891	0.105	0.257	0.01004	0.000008	0.78	<b>Kupferkonzentrat</b>								
CI DC35005	21.69	1.04	0.54	1.160	0.039	1.51	0.00612	0.000005	1.52	<b>Copper Concentrate</b>								
CRM	Cu	S	Fe	Zn	C	SiO <sub>2</sub>	MgO	Pb	Al <sub>2</sub> O <sub>3</sub>	CaO	Ag	Se	Cd	Bi	Hg	As	Te	Co
T CCU1c	25.62	33.3	29.34	3.99	0.09	2.52	1.02	0.34	0.34	0.15	129ppm	107ppm	136ppm	70ppm	32ppm	34ppm	(23ppm)	18ppm
	Mo	Au	Mn	Sb	Ni	200 g												
	20ppm	4.94ppm	0.012	(4ppm)	11ppm	<b>Kupferkonzentrat; Copper Concentrate</b>												
CRM	Cu	Pb	Zn	Cd	ppm Re	ppm Ag	50 g											
VS 2891-84	40.4	2.25	2.89	0.029	28.2	707.7	<b>Kupferkonzentrat; Copper Concentrate</b>											
CRM	Cu	Fe	Ni	Pb	S	SiO <sub>2</sub>	Zn	50 g										
T HCC1	(26.9)	(29.8)	-	(1.0)	33.92	(1.1)	(4.6)	<b>S in Kupferkonzentrat/Copper Concentrate</b>										
T INM1	(25.5)	(5.1)	(48.0)	-	22.17	(0.1)	-	<b>S in NiCu-Sulphide Matte</b>										



B R E I T L Ä N D E R - E I C H P R O B E N

6.3.8

Verschiedene Erze (Various Ores)  
Erzaufbereitungsprodukte (Ore Processing Products)

CRM	Pb	Cu	Zn	S	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MnO	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	F	ppm Cd	ppm Co	ppm Ni	ppm As
GB 07235	4.17	0.20	0.062	0.86	43.63	4.37	12.88	0.53	1.40	19.51	1.62	1.42	1.61	0.27	3.2	14.7	27.7	85.1
GB 07236	0.61	0.035	0.092	0.38	30.51	3.79	8.95	0.44	1.53	34.56	2.06	0.82	0.066	0.23	2.6	15.7	34.5	43.2
	ppm Sb	ppm Bi	ppm Sn	ppm W	ppm Mo	ppm Ag	ppm Ga	ppm In	ppm Ge	ppm Se	ppm Te	ppm Tl	ppm La	ppm Ce	ppm Pr	ppm Nd	ppm Sm	ppm Eu
	39.3	15.6	3.0	17.6	1.6	14.7	16.7	0.12	0.90	1.7	3.9	0.43	40.5	78.3	8.1	28.2	5.1	1.2
	12.03	12.5	2.9	30.6	1.3	5.6	11.7	0.09	0.93	0.81	1.2	1.0	31.2	66.8	6.2	23.4	4.6	0.82
	ppm Gd	ppm Tb	ppm Dy	ppm Ho	ppm Er	ppm Tm	ppm Yb	ppm Lu	ppm Y	ppm Sc	ppm Th	ppm Cr	ppm Li	ppm Rb	ppm Cs	100 g		
	3.7	0.58	3.0	0.61	1.5	0.23	1.5	0.24	15.4	7.5	10.2	(29)	(19)	(55)	(6)	<b>Pb-Erz/Ore</b>		
	3.6	0.60	3.1	0.65	1.6	0.26	1.7	0.25	16.2	8.1	10.5	(41)	(18)	(74)	(2.3)			
CRM	Pb	S	Fe	Zn	SiO <sub>2</sub>	Sb	Al <sub>2</sub> O <sub>3</sub>	Cu	As	Mn	Bi	Sn	Cd	ppm Ag	ppm Au	ppm Se		
T CFB1	64.74	17.8	8.43	4.42	0.74	0.36	0.28	0.254	0.056	0.039	0.023	0.019	0.0143	626	-	30	200 g	Pb-Konz.
VS 2036-81	Rest	-	-	-	-	-	-	-	-	-	-	-	-	2322	32.6	-	100 g	
VS 2038-81	Rest	-	-	-	-	-	-	-	-	-	-	-	-	415	0.21	Ni=0.410ppm	100 g	
CRM	Zn	Cu	Pb	S	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MnO	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	F	ppm Cd	ppm Co	ppm Ni	ppm As
GB 07237	2.75	0.71	0.25	2.87	82.95	3.50	2.80	0.017	0.026	1.91	0.082	0.99	0.56	1.20	29.3	8.7	5.5	12.4
	ppm Sb	ppm Bi	ppm Sn	ppm W	ppm Mo	ppm Ag	ppm Ga	ppm In	ppm Ge	ppm Se	ppm Te	ppm Tl	ppm La	ppm Ce	ppm Pr	ppm Nd	ppm Sm	ppm Eu
	1.1	56.4	6.1	3.4	2.8	13.5	8.0	0.23	1.4	2.3	0.17	0.49	1.3	2.3	0.30	0.92	0.36	0.06
	ppm Gd	ppm Tb	ppm Dy	ppm Ho	ppm Er	ppm Tm	ppm Yb	ppm Lu	ppm Y	ppm Sc	ppm Th	ppm Cr	ppm Li	ppm Rb	100 g			
	0.31	0.10	0.49	0.13	0.28	0.05	0.42	0.08	4.5	0.33	(1.1)	(62)	(86)	(73)	<b>Zn-Erz; Zn-Ore</b>			
CRM	Zn	S	Fe	Pb	Al	Mn	Cu	Cd	Ca	Co	Sb	As	Ag	Hg	200 g			
T CZN3	50.92	31.6	9.97	0.113	0.10	0.0096	0.685	0.248	0.058	0.009	10ppm	0.039	45ppm	5ppm	<b>Zn-Konzentrat; Zn-Concentrate</b>			

CRM	Zn	S	Cd	Ca	Cu	Fe	Pb	Mg	Ag	ppm Hg	100 g					
3 113b	56.49	30.032	0.7804	0.8196	0.2953	2.077	2.731	0.4460	0.04607	(0.55)	Zn-Konzentrat; Zn-Concentrate					
CRM	Pb	Fe	Cu	Cd	Mg	F	Hg	Zn	200 g							
H 108	0.904	7.21	0.073	0.079	0.075	0.0063	0.00109	Rest	Zn-Konzentrat							
H 109	0.738	14.51	0.946	0.46	0.020	0.0081	0.000096	Rest	Zn-Concentrate							
H 110	9.78	0.55	1.628	1.051	0.136	0.0055	0.01484	Rest								
CRM	Zn	10 g														
H 026	48.50	Zn-Erz														
H 027	44.01	Zn-Ore														
H 028	51.16															
H 029	35.18															
H 030	49.10															
H 031	36.73															
RM	Zn	Pb	Fe	CaO	S	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	MgO	Cd	150 g						
IM KC4	56.10	2.41	1.35	3.31	28.85	0.053	0.14	0.46	0.40							
IM KC8	59.52	2.20	0.88	2.37	29.58	0.029	0.14	1.21	0.40							
IM KC9	57.79	1.97	0.96	2.87	29.27	0.038	0.15	1.64	0.40							
IM KC10	54.49	2.59	1.47	4.35	28.23	0.05	0.24	2.54	0.40							
RM	Zn	Pb	Fe	CaO	MgO	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	S	As	F	Cl	Cd	Sb	Co	Ni	280 g / 220 g / 240 g
IM KC11	53.36	1.21	6.53	0.72	0.30	0.069	0.26	-	0.042	-	-	-	19.8ppm	1.8ppm	15.0ppm	Zn-Konzentrat; Zn-Concentr.
IM TC9	53.4	3.77	5.64	6.96	3.50	-	5.47	0.52	-	0.055	0.033	0.0049	-	-	-	Zn-Oxid, gesintert;
IM TC/P10	60.6	2.31	6.7	2.54	1.38	0.14	0.56	3.07	-	-	-	-	-	-	-	Roasted Zn-Oxide
CRM	Zn	Pb	Fe	Cd	S	SiO <sub>2</sub>	CaO	MgO	Al <sub>2</sub> O <sub>3</sub>							
IM RB7	3.07	(0.26)	8.28	0.033	(10.3)	(0.8)	24.35	15.26	-	170 g	Zinkblende; Blende Ore	Sphalerit/Sphalerite Seite/Page 6.6.2				
IM RG8	5.40	0.84	6.34	0.047	0.57	2.64	26.45	12.16	0.90	130 g	Galmeierz; Galmei Ore					
CRM	Zn	Pb	Cu	Sn	Ag	S	Fe	Si	Al	C	Mn	H <sub>2</sub> O	200 g			
T KC1a	34.65	2.24	0.629	0.61	0.167	(27.5)	(10.9)	(0.6)	(0.6)	(0.02)	(0.01)	(0.09)	ZnPbSnAg-Erz/Ore			

CRM	Sn	Pb	Fe	As	Sb	Bi	Zn	S	Cu	SiO <sub>2</sub>	WO <sub>3</sub>	Ag	100 g					
GB 07231	45.80	2.89	21.33	0.574	0.024	0.034	0.264	0.183	-	-	-	25.5ppm	Sn-Konzentrat	Kassiterit; Cassiterite				
GB 07232	62.49	1.62	9.53	0.306	0.016	0.020	0.120	0.090	0.043	0.930	0.182	-	Sn-Concentrate	Seite/Page 6.6.3				
CRM	Sn	As	Cu	Pb	Zn	Sb	S	P	W	Mo	SiO <sub>2</sub>	ppm Cd	ppm Ni	ppm Co	ppm Bi	ppm Ag	ppm Ga	ppm Se
GB 07281	4.47	0.79	0.26	2.72	0.74	0.018	0.097	(0.11)	0.068	0.027	9.50	26.8	70.9	26.2	80.3	16.7	25.2	3.0
GB 07282	1.27	0.78	0.32	2.82	0.91	0.012	0.082	-	0.015	0.033	-	32.4	44.1	9.6	80.9	16.5	17.8	2.9
	ppm Li	ppm La	ppm Ce	ppm Pr	ppm Nd	ppm Sm	ppm Eu	ppm Gd	ppm Tb	ppm Dy	ppm Ho	ppm Er	ppm Tm	ppm Yb	ppm Lu	ppm Y	100 g	
	39.1	45.3	87.0	10.8	39.9	8.0	1.8	7.4	1.1	6.7	1.3	3.5	0.57	3.3	0.50	32.1	Sn-Erz	
	33.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Sn-Ore	
CRM	Sn	Fe	Cu	As	Bi	Zn	Pb	S	W	Ni	Si	Ti	Al	Ca	F	100 g		
H 010	76.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Sn-Konzentrat; Sn-Concentrate		
5 355	31.42	17.08	0.085	0.14	0.015	0.059	0.012	0.50	0.35	0.0040	7.14	0.37	4.12	2.63	2.02	Sn-Erz; Sn-Ore		
CRM	Cu	Pb	Zn	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO	Fe <sub>2</sub> O <sub>3</sub>	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	CO <sub>2</sub>	F	H <sub>2</sub> O	S
VS 2889-84	3.16	1.90	0.80	61.68	0.44	10.96	2.96	3.77	0.136	1.36	4.10	3.09	1.79	0.107	3.15	0.037	-	1.81
VS 8078-94	0.38	0.21	0.15	(63.23)	(0.46)	(11.87)	(2.95)	(4.40)	(0.16)	(1.35)	(5.62)	(3.32)	(2.21)	(0.11)	(4.05)	(0.042)	(1.14)	0.75
VS 8079-94	0.73	0.62	0.41	(63.32)	(0.41)	(10.62)	(2.15)	(3.49)	(0.18)	(0.96)	(6.73)	(3.34)	(1.92)	(0.092)	(4.88)	(0.032)	(1.54)	1.25
	Cd	ppm Re	ppm Ag	100 g														
	0.0071	4.7	35.0	Zusammengesetztes Erz														
	0.0036	0.72	1.6	Complex Ore														
	0.016	2.9	3.7															
CRM	Cu	Pb	Zn	Ba	S	SO <sub>4</sub>	As	ppm Au	ppm Ag	ppm Cd	ppm In	ppm Se	ppm Te	ppm B	ppm Co	50 g		
VS 3593-86	0.99	0.27	4.63	6.8	18.3	1.74	0.080	3.2	20.9	162.8	5.5	20.0	33.3	-	-	Zusammenges. Erz; Compl. Ore		
VS 3594-86	4.16	0.34	2.25	10.7	41.1	3.07	0.18	12.1	107.0	75.0	9.7	50.9	210.4	-	-	Eisenkies; Pyrite Compl. Ore		
VS 3595-86	2.15	0.13	0.81	2.40	46.8	1.08	0.12	2.1	36.7	52.3	2.5	58.2	72.6	-	-	Eisenkies; Pyrite Compl. Ore		
VS 3596-86	13.1	0.56	1.22	26.0	26.1	6.4	1.21	7.6	155.4	52.5	13.1	-	-	-	-	Py-Ba-Erz; Py-Ba-Complex Ore		
VS 3597-86	-	-	-	-	-	-	3.96	8.8	-	-	-	-	-	1.08	0.17	B-Au-Co-Erz; B-Au-Co-Ore		
CRM	Fe	S	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Cl	Co	CO <sub>2</sub>	Cr	Cs	Cu	F
BF PS1	40.42	42.90	0.0028	0.1850	0.2650	0.000004	(0.00096)	0.00079	2.0250	(0.0192)	(0.00068)	(0.0290)	0.0089	(4.1300)	(0.0014)	(0.0003)	(0.1058)	0.0690
	Ga	Ge	Hg	Ho	I	In	K	La	Mg	Mn	Mo	Na	Nb	Nd	Ni	Pb	Pr	Ra
	(0.00036)	(0.0040)	0.000021	(0.000012)	(0.00002)	(0.0095)	0.0620	(0.00026)	0.0933	0.2600	(0.00042)	(0.0093)	(0.00008)	(0.00023)	0.0190	0.0345	(0.00005)	(0.0001)
	Rb	Re	Ru	Sb	Se	Si	Sn	Sr	Ta	Tb	Th	Ti	Tl	U	V	Y	Zn	15 g
	(0.0062)	(0.000009)	(0.00096)	0.0062	(0.0076)	3.1920	(0.0125)	(0.0051)	(0.00024)	(0.000009)	(0.000068)	0.0021	(0.0120)	(0.00008)	(0.0014)	(0.00085)	(0.0203)	Pyrit(e)

CRM	ppm Pt	ppm Pd	ppm Rh	ppm Ir	ppm Ru	ppm Au	80 g											
VS 3613-87	1.22	6.0	1.26	0.10	0.31	0.12	Magnetkies	Hauptelemente im Zertifikat										
VS 3614-87	1.07	5.1	0.55	0.052	0.14	0.11	Pyrrhotite Ores	Main elements in certificate										
VS 3615-87	1.17	6.0	1.90	0.17	0.50	0.11												
VS 3616-87	3.1	17.6	1.13	0.10	0.22	0.44												
CRM	ppm Pt	ppm Pd	ppm Rh	ppm Ir	ppm Ru	ppm Os	ppm Au	ppm Ag	Ni	Cu	Co	Fe	S	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Zn	Pb	
VS 2532-83	16.60ppm	51.50ppm	3.72ppm	0.43ppm	1.16ppm	0.17ppm	1.62ppm	41.45ppm	12.87	(7.00)	(0.53)	(51.51)	(23.15)	(0.30)	(0.21)	(0.0067)	(0.013)	
	Na	K	Bi	100 g														
	(0.04)	(0.03)	(0.010)	Pyrit; Pyritic Complex Ore Composition														
CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO	Fe <sub>2</sub> O <sub>3</sub>	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	CO <sub>2</sub>	F	H <sub>2</sub> O+	S	Cu	Pb	Zn
VS 2888-84	(66.14)	(0.48)	(11.49)	(3.16)	(4.17)	(0.16)	(1.49)	(3.78)	(2.98)	(1.82)	(0.12)	(3.05)	(0.039)	(1.84)	0.60	1.55	0.103	0.023
VS 8076-94	(68.88)	(0.58)	(12.38)	(3.06)	(4.02)	(0.14)	(1.64)	(3.14)	(3.46)	(1.64)	(0.12)	(2.44)	(0.040)	(2.00)	(0.02)	0.036	-	-
VS 8077-94	(63.74)	(0.55)	(12.82)	(2.76)	(4.76)	(0.15)	(1.58)	(4.70)	(3.42)	(2.43)	(0.12)	(3.38)	(0.049)	(2.04)	0.33	0.11	-	-
	ppm Re	ppm Ag	50 g															
	1.65	25.9	Sandstein, kupferhaltig; Cupriferous Sandstone															
	0.023	0.64	Sandstein; Sandstone															
	0.14	10.2	Sandstein, kupferhaltig; Cupriferous Sandstone															
CRM	S	Fe	Zn	Pb	Cu	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	ppm Ag	ppm As	ppm Bi	
2 SG	11.20	8.73	4.64	3.88	0.45	50.03	0.29	6.11	0.18	0.96	4.50	0.64	1.99	0.057	39	1130	13	
	ppm Cd	ppm Co	ppm Ni	70 g														
	258	29	21	Sulfiderz, polymetal.; Polymetallic Sulphide Ore														
CRM	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe	MgO	CaO	BaO	MnO	Zn	Cu	Na <sub>2</sub> O	K <sub>2</sub> O	ppm As	ppm Cd	ppm Co	ppm Ni	ppm Pb		
UN MII	0.50	10.63	6.79	2.06	0.49	0.049	0.11	1.79	0.21	0.93	2.22	0.0901	0.0767	0.0223	0.0329	0.868		
	ppm Sr	ppm V	100 g															
	0.0259	0.0845	Sulfiderz, polymetal.; Polymetallic Sulfide Ore															
CRM	S	S(sul)	Fe	Si	Ca	Al	Mg	Cu	Zn	Pb	Ni	Co	As	100 g				
T RTS1	1.66	1.26	19.64	19.89	2.67	4.26	2.67	0.0595	0.0553	0.0105	0.0022	0.00166	0.00082	Sulphiderzwaschberge				
T RTS2	18.95	3.87	37.4	2.92	0.53	0.83	0.35	0.0670	0.0117	0.0045	0.2430	0.0072	0.00063	Sulphide Ore Mill Tailings				
T RTS4	35.9	0.27	56.7	0.998	0.327	0.339	0.179	0.0280	0.0158	0.0060	0.7940	0.0186	0.0207	25 g 18 informative Values in Certificate				

CRM ppm Ag 500 g

GB 07255 46.9 Silber in Silbererz  
GB 07256 112 Silver in Silver Ore  
GB 07257 298  
GB 07258 446  
GB 07259 559  
GB 07260 732

CRM ppm Ag ppm Au 1000 g

GB 07203 5.41 3.59 Edelmetallerz  
GB 07207 0.33 0.008 Noble Metal Ore  
GB 07208 2.06 0.051  
GB 07209 9.08 0.421

CRM ppm Au 200 g

3 886 8.25 Golderz; Gold Ore

CRM SiO<sub>2</sub> Al<sub>2</sub>O<sub>3</sub> Fe<sub>2</sub>O<sub>3</sub> K<sub>2</sub>O ppm Au ppm As ppm Sb 30 g

UG DGPM-1 79.82 9.56 1.92 2.74 0.730 180 14 Golderz; Gold Ore

CRM SiO<sub>2</sub> TiO<sub>2</sub> Al<sub>2</sub>O<sub>3</sub> Fe<sub>2</sub>O<sub>3</sub> MgO CaO BaO MnO Na<sub>2</sub>O K<sub>2</sub>O ppm As ppm Au ppm Cr ppm Cu ppm B ppm Sr  
UN AuM 66.15 0.39 14.06 5.55 1.81 4.09 0.066 0.082 3.08 1.92 876.5 2.5 47 35.9 12.9 187.7

ppm V ppm Y ppm Zr 200 g

96.4 14.2 81.0 Golderz; Gold Bearing Ore

CRM ppm Pt ppm Pd ppm Au ppm Ag ppm Rh ppm Ru ppm Os ppm Ir 500 g

X 7b 3.74 1.54 0.27 0.42 0.24 0.46 0.063 0.09 Platinerz; Platinum Ore

CRM ppm Ag ppm Au ppm Cd ppm Co ppm Se Cu Fe K Mg S Ti Zn 200 g

T CH4 2.1 0.88 1.14 26 2.1 0.20 5.42 1.81 1.43 0.63 0.31 0.020 Golderz; Gold Ore 47 informative Werte im Zertifikat

47 informative values in certificate

CRM ppm Au Al<sub>2</sub>O<sub>3</sub> CaO Fe<sub>2</sub>O<sub>3</sub> K<sub>2</sub>O MgO Na<sub>2</sub>O P<sub>2</sub>O<sub>5</sub> SiO<sub>2</sub> TiO<sub>2</sub> S C LOI 400 g

T GTS2 0.263 (50) (5.7) (11.1) (2.2) (4.3) (0.9) (0.2) (50) (0.75) (0.8) (2.4) (9.3) Goldwaschberge; Gold Tailings



CRM	Au	Ag	As	S	Sb	100 g
VS 2738-83	0.00046	0.00011	1.10	3.34	0.0040	Golderz; Gold Bearing Ore
VS 2739-83	0.0034	0.00057	8.0	26.0	0.020	
VS 2740-83	0.00009	0.000031	0.17	0.38	0.0019	Golderzberge; Tails of Gold Bearing Ore
VS 2741-83	0.00016	0.000053	0.080	0.33	(0.0007)	

CRM	ppm Au	ppm Ag	500 g
X 53	3.99	(1.0)	Gold Head Sample
X 54	0.215	-	Gold Tailings
X 56	2.69	(1.7)	Gold Calcine

CRM	ppm Pt	ppm Pd	ppm Au	ppm Ag	ppm Rh	ppm Ru	ppm Ir	ppm Os	Cu	Ni	Fe	Ca	S	Al		
T PTA1	3.05	-	-	-	-	-	-	-	-	-	-	-	-	-	400 g	Edelmetallerz
T PTC1a	2.72	4.48	1.31	56.0	0.33	-	-	-	13.51	10.13	-	-	-	-	200 g	Noble Metal Ore
T PTM1a	7.31	10.01	3.30	(135)	(0.02)	(0.7)	-	-	(25.00)	(47.95)	-	-	-	-	400 g	
T MA1b	-	-	17.0	-	-	-	-	-	-	-	-	-	-	-	200 g	
T MA2c	-	-	3.02	(0.51)	-	-	-	-	-	-	-	-	-	-	400 g	
T MA3a	-	-	8.56	-	-	-	-	-	-	-	-	-	-	-	200 g	
T TDB1	0.0058	0.0224	0.0063	-	(0.7)	-	(0.7)	-	-	-	-	-	-	-	400 g	
T WGB1	0.0061	0.0139	0.0029	-	(0.00032)	-	(0.00033)	-	-	-	-	-	-	-	400 g	
T WMG1	0.731	0.382	0.110	-	0.026	0.035	0.046	(0.024)	-	-	-	-	-	-	400 g	
T WMS1a	1.91	1.45	0.300	-	0.222	-	-	-	1.396	3.02	45.4	3.09	28.17	1.350	200 g	
T WPR1	0.285	0.235	0.042	-	0.0134	0.022	0.0135	-	-	-	-	-	-	-	400 g	

CRM	Al <sub>2</sub> O <sub>3</sub>	H <sub>2</sub> O	ppm Ca	ppm Co	ppm Cr	ppm Cu	ppm Fe	ppm Mg	ppm Mn	ppm Na	ppm Ni	ppm Si	ppm Ti	ppm Zn	ppm Zr	100 g
B Al <sub>2</sub> O <sub>3</sub>	99.76	0.22	3.1	<1	<1.6	2.5	3.2	<3	1.5	<15	<10	<20	<2	<2	<3.2	Aluminiumoxid; Aluminium Oxide
CRM	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	100 g							
A FF8	36.91	53.79	2.54	2.93	0.36	0.54	0.09	1.69								
A FF10	24.04	69.66	1.49	1.70	0.36	0.31	0.12	1.73								
CRM	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	K <sub>2</sub> O	Na <sub>2</sub> O	CaO	MgO	LOI	75 g						
N 137	32.43	61.46	1.63	1.13	1.31	0.126	0.28	0.28	1.24	Schamotte						
N 138	26.01	68.90	1.47	0.92	0.98	0.10	0.23	0.22	0.92	Refractories						
N 139	13.80	82.41	0.84	0.53	0.51	0.059	0.14	0.12	0.78							
RM	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MnO	CaO	MgO	Na <sub>2</sub> O	10x20 g							
JR 101	8.10	88.57	0.31	0.30	0.11	1.06	0.21	1.01	Schamotte, tonhaltig							
JR 102	13.79	80.47	3.97	0.45	0.01	0.04	0.67	0.30	Clayey Refractories							
JR 103	18.07	80.32	0.40	0.37	0.00	0.07	0.01	0.12								
JR 104	22.52	67.35	3.24	2.94	0.01	0.25	0.07	0.30	nur Satz/set only							
JR 105	24.71	70.58	0.66	2.36	0.18	0.10	0.07	0.73								
JR 106	29.91	63.61	1.92	0.67	0.02	0.14	0.98	0.59								
JR 107	37.08	55.32	2.20	1.15	0.01	0.71	0.49	0.21								
JR 108	40.08	55.31	1.54	1.05	0.02	0.27	0.27	0.20								
JR 109	41.24	54.23	0.89	1.96	0.01	0.14	0.12	0.30								
JR 110	46.68	49.54	0.84	1.66	0.01	0.10	0.16	0.08								
RM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MnO	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	Cr <sub>2</sub> O <sub>3</sub>	Zr <sub>2</sub> O <sub>2</sub>	LOI	15x20 g		
JR 121	86.3	6.07	0.40	0.05	0.02	1.96	0.12	3.20	0.23	0.32	0.01	1.11	(0.05)	Schamotte, tonhaltig		
JR 122	78.2	10.2	0.24	1.03	0.20	0.43	0.65	1.04	2.05	4.89	0.81	0.20	(0.12)	Clayey Refractories		
JR 123	79.1	13.3	4.13	0.45	0.01	0.13	1.32	0.29	0.10	0.80	0.01	0.00	(0.03)			
JR 124	73.9	16.5	2.60	2.74	0.24	1.09	0.10	0.31	1.79	0.19	0.11	0.11	(0.10)	nur Satz/set only		
JR 125	79.2	18.7	0.50	0.30	0.00	0.13	0.08	0.07	0.69	0.04	0.01	0.02	(0.07)			
JR 126	66.9	21.3	3.34	2.84	0.03	0.45	0.12	0.28	3.13	0.49	0.65	0.04	(0.17)			
JR 127	68.5	23.0	0.92	2.19	0.17	0.18	0.15	1.75	0.54	1.78	0.27	0.04	(0.07)			
JR 128	54.3	26.0	4.45	1.37	0.24	2.80	3.10	0.37	1.84	3.36	0.85	1.01	(0.02)			
JR 129	62.2	30.1	1.46	0.96	0.01	0.15	2.23	0.23	1.92	0.20	0.10	0.11	(0.11)			
JR 130	53.4	32.7	0.53	3.35	0.37	1.95	0.61	2.32	1.42	0.91	1.05	0.83	(0.11)			
JR 131	52.7	36.6	2.20	1.16	0.03	0.78	1.02	0.76	2.61	1.61	0.07	0.26	(0.17)			
JR 132	50.6	39.1	1.64	0.29	0.11	1.29	0.34	2.16	0.79	2.38	0.11	0.75	(0.15)			
JR 133	50.1	39.0	3.69	1.93	0.01	0.10	2.03	0.33	0.91	0.34	1.27	0.57	(0.08)			
JR 134	47.2	44.3	1.07	1.74	0.24	0.20	0.20	0.13	0.37	3.83	0.24	0.35	(0.14)			
JR 135	37.2	48.9	3.05	0.07	0.04	2.36	1.24	2.87	2.77	0.48	0.42	0.20	(0.18)			

CRM	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Cr <sub>2</sub> O <sub>3</sub>	MnO	CaO	MgO	BaO	Na <sub>2</sub> O	K <sub>2</sub> O	Li <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	ZrO <sub>2</sub>	LOI	100 g
5 309	61.1	34.1	1.92	1.51	-	(0.03)	0.22	0.17	(0.006)	0.34	0.46	(0.01)	-	-	(0.08)	Sillimanit; Sillimanite Brick
EC 776-1	29.28	62.76	1.62	1.43	0.02	-	0.31	0.48	0.122	0.49	2.92	0.02	0.06	(0.04)	(0.3)	Schamottstein; Fire Clay Brick
RM	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	Li <sub>2</sub> O	BaO	LOI	25 g				
CR 2CAS12	63.6	34.0	1.34	0.30	0.31	0.06	0.13	0.12	<0.01	-	0.12	Sillimanit; Sillimanite				
CRM	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	CaO	LOI	100 g						
X 34	59.15	0.75	39.04	0.163	0.131	0.238	0.093	(0.13)	0.622	Andalusit; Andalusite						
CRM	Al <sub>2</sub> O <sub>3</sub>	CaO	Fe <sub>2</sub> O <sub>3</sub>	Li <sub>2</sub> O	MgO	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	SiO <sub>2</sub>	Na <sub>2</sub> O	SrO	TiO <sub>2</sub>	ZrO <sub>2</sub>	LOI	75 g		
3 76a	38.7	0.22	1.6	0.042	0.52	0.12	1.33	54.9	0.07	0.037	2.0	0.15	(0.34)	Tonerde; Alumina		
3 77a	60.2	0.05	1.0	0.2	0.38	0.092	0.09	35.0	0.037	0.009	2.6	0.21	(0.22)	Tonerde; Alumina		
3 78a	71.7	0.11	1.2	0.12	0.70	1.3	1.22	19.4	0.078	0.25	3.2	0.31	(0.42)	Tonerde; Alumina		
CRM	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	LOI						
CM 1770	79.26	1.49	3.05	1.12	0.060	0.077	-	-	0.148	14.38	60 g	Tonerde; Alumina				
CM 1778	90.58	4.20	2.13	1.82	0.16	0.38	0.12	0.19	-	-	80 g	Tonerde, hochrein,; High Purity Alumina				
RM	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	25 g	Tonerdeprodukte der Al-Industrie s. S. 6.7.1 ff. Alumina from Al-Industry see page 6.7.1 ff.						
CR AN40	38.2	58.9	0.02	0.90	0.15	0.27	0.10	1.48	Molochit; Molochite							
CRM	Al <sub>2</sub> O <sub>3</sub>	CaO	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	MgO	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	LOI	50 g					
IP 28	37.6	0.09	0.83	0.03	0.04	0.02	0.15	45.1	2.04	13.9	Tonerde					
IP 32	28.5	0.17	3.46	0.80	0.39	0.16	0.13	51.8	1.49	12.6	Alumina					
IP 42	32.2	0.02	1.09	0.47	0.19	0.02	0.07	51.9	0.96	12.9						
RM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MnO	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	10x20 g						
JR 301	43.91	46.80	3.52	1.03	0.01	0.79	0.69	0.17	2.00	Tonerde						
JR 302	37.70	53.93	4.49	0.59	0.20	0.87	0.69	0.56	0.66	Alumina						
JR 303	36.16	59.25	1.47	0.16	0.00	1.03	0.85	0.69	0.20							
JR 304	27.55	63.06	3.46	4.34	0.05	0.18	0.37	0.27	0.38	nur Satz/set only						
JR 305	20.03	68.69	2.81	3.30	0.01	0.65	0.30	0.80	3.11							
JR 306	17.35	74.19	1.95	2.68	0.01	0.62	0.10	0.99	1.75							
JR 307	10.87	80.14	2.97	1.22	0.01	0.15	0.61	1.08	2.36							
JR 308	10.25	86.59	0.41	1.79	0.11	0.09	0.05	0.26	0.10							
JR 309	2.12	89.83	1.27	3.85	0.00	1.02	0.28	0.42	0.92							
JR 310	0.41	94.71	0.02	2.06	0.04	0.03	0.97	0.08	1.32							

RM	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	Mn <sub>3</sub> O <sub>4</sub>	Cr <sub>2</sub> O <sub>3</sub>	LOI	25 g							
CR AN25	99.4	<0.01	<0.01	0.03	0.05	0.01	0.53	<0.01	0.05	-	-	-	Tonerde, hochrein High Purity Alumina							
CR AN26	99.8	0.09	<0.01	0.04	0.06	<0.01	0.03	<0.01	-	-	-	-								
CR AN27	99.84	0.05	<0.01	0.03	0.06	<0.01	0.02	<0.01	-	-	-	-								
CRM	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	TiO <sub>2</sub>	SO <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	CO <sub>2</sub>	H <sub>2</sub> O	Cl	LOI	50 g			
GB 03101	26.16	49.89	10.38	(0.030)	0.26	0.52	1.02	0.086	0.77	0.026	0.13	0.11	(0.08)	(10.06)	0.0033	10.48	Ton Clay			
GB 03101a	26.27	49.98	10.55	(0.080)	0.13	0.46	0.79	0.060	0.70	0.49	0.14	0.052	(0.041)	(9.64)	0.0041	10.62				
GB 03102	36.74	48.17	0.28	(0.082)	0.054	0.046	1.05	0.094	0.021	0.019	0.032	0.013	(0.04)	(13.12)	0.0043	13.38				
GB 03102a	31.32	53.67	0.33	(0.052)	1.80	0.083	1.15	2.55	0.030	0.023	0.053	0.020	(0.051)	(8.64)	0.0029	8.81				
GB 03103	13.28	66.64	4.64	(0.80)	3.23	1.84	2.50	1.81	0.66	0.027	0.106	0.088	1.66	(3.38)	0.011	5.10	60 g			
CRM	Al	Ca	Cr	Fe	Li	Mg	Mn	K	Si	Na	Sr	Ti	Ba	P	Zr	Sb	Cs	Co		
3 97b	20.76	0.0249	0.0227	0.831	0.0550	0.113	0.0047	0.513	19.81	0.0492	0.0084	1.43	(0.018)	(0.0200)	(0.05)	(0.00022)	(0.00034)	(0.00038)		
3 98b	14.30	0.0759	0.0119	1.18	0.0215	0.358	0.0116	2.81	26.65	0.1496	0.0189	0.809	(0.07)	(0.0300)	(0.022)	(0.00016)	(0.00165)	(0.00163)		
3 679	11.01	0.1628	0.01097	9.05	0.00717	0.7552	(0.1730)	2.433	24.34	0.1304	0.00734	0.577	0.04322	(0.0750)	-	-	(0.00096)	(0.0026)		
	Eu	Hf	Rb	Sc	Th	Zn	Ce	LOI	60 g											
	(0.000084)	(0.0013)	(0.0033)	(0.0022)	(0.0036)	(0.0087)	-	13.3	Ton, mager;	Flint Clay										
	(0.00013)	(0.00072)	(0.0180)	(0.0022)	(0.0021)	(0.0110)	-	7.5	Ton, fett;	Plastic Clay										
	(0.00019)	(0.00046)	(0.0190)	(0.00225)	(0.0014)	(0.0150)	(0.0105)	-	Ziegelton;	Brick Clay, 75g										
CRM	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Cr <sub>2</sub> O <sub>3</sub>	CaO	MgO	BaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	ZrO <sub>2</sub>	LOI	100 g						
5 348	31.59	51.13	1.08	1.04	0.016	0.173	0.305	(0.04)	0.344	2.23	0.071	(0.03)	11.75	Töpferton;	Ball Clay					
CRM	ppm F	30 g																		
H 461	568	Fluor in Lehm;	Fluorine in Clay																	
RM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	Li <sub>2</sub> O	LOI	25 g									
CR 2CAS1	52.5	1.16	32.0	1.03	0.20	0.28	0.34	2.25	0.03	9.80	Töpferton;	Ball Clay								
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	MgO	LOI	100 g												
CM 1780	44.48	38.56	0.66	1.73	0.074	0.074	14.05	Lehm;	Clay											
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	TiO <sub>2</sub>	MnO	P <sub>2</sub> O <sub>5</sub>	SO <sub>3</sub>	H <sub>2</sub> O	FeO	CO <sub>2</sub>	LOI	50 g				
GB 03121	54.55	31.41	0.50	0.052	0.12	0.34	0.015	0.69	0.0032	0.099	0.53	11.72	(0.026)	(0.026)	11.94	Kaolin				
GB 03122	44.53	38.62	0.72	0.16	0.068	0.049	0.069	0.39	0.0054	0.21	0.12	14.77	(0.33)	(0.06)	15.00	China Clay				

CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	CO <sub>2</sub>	S	H <sub>2</sub> O	Be	Cr	Cu	Li	
UN KK	47.06	0.166	36.77	0.982	0.015	0.192	0.236	0.032	1.063	0.090	0.174	0.019	12.75	0.0012	0.00095	0.00088	0.0174	
	<b>Pb</b>	<b>Rb</b>	<b>Sn</b>	<b>Sr</b>	<b>Zn</b>	<b>LOI</b>	<b>100 g</b>											
	0.0120	0.0159	0.0033	0.0076	0.0049	13.08	<b>Kaolin; China Clay</b>											
RM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	LOI	<b>25 g</b>								
CR AN41	54.8	0.05	41.5	0.71	0.16	0.41	<0.05	1.81	(12.4)	<b>Kaolin; China Clay</b>								
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	Fe <sub>2</sub> O <sub>3</sub>	MgO	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Na <sub>2</sub> O	SrO	TiO <sub>2</sub>	BaO	Rb <sub>2</sub> O	LOI	<b>40 g</b>				
3 70a	67.1	17.9	0.11	0.07	-	-	11.8	2.5	-	0.01	0.02	0.06	0.40	<b>Feldspat/Feldspar, K<sub>2</sub>O</b>				
3 99a	65.2	20.5	2.14	0.06	0.02	0.02	5.2	6.2	-	0.007	0.26	-	0.26	<b>Feldspat/Feldspar, Na<sub>2</sub>O</b>				
3 607	-	-	-	-	-	-	-	-	0.00774	-	-	0.05732	-	<b>Feldspat/Feldspar, K<sub>2</sub>O 5 g</b>				
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	PbO	LOI	<b>100 g</b>						
5 375/1	69.24	17.88	0.312	0.291	0.78	0.180	8.89	1.47	0.226	-	0.72	<b>Na-Feldspat; Soda-Feldspar</b>						
5 376/1	65.77	18.63	(0.01)	0.085	0.421	(0.03)	3.00	11.59	(0.02)	0.0090	0.203	<b>K-Feldspat; Potassium Feldspar</b>						
CRM	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	TiO <sub>2</sub>	K <sub>2</sub> O	Na <sub>2</sub> O	LOI	<b>50 g</b>								
GB 03116	66.26	0.19	18.63	0.76	0.054	0.048	9.60	3.69	0.86	<b>Feldspat; Feldspar</b>								
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	MgO	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	TiO <sub>2</sub>	LOI	<b>80 g</b>							
IP 53	65.8	18.3	0.27	0.13	12.1	0.05	2.5	0.072	0.013	0.51	<b>K-Feldspat; Potassium Feldspar</b>							
IP 72	66.2	20.26	0.18	0.09	1.47	(0.022)	10.0	1.03	0.005	0.66	<b>Na-Feldspat; Soda Feldspar</b>							
CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	Ba	Cs	Cu	Ga	Li	Pb	Rb	
Z FK	88.2	0.058	6.18	0.261	0.0037	0.15	0.110	0.25	4.23	0.077	0.0700	0.00026	0.0011	0.0006	0.0008	0.0018	0.0132	
	<b>Sr</b>	<b>Zn</b>	<b>50 g</b>															
	0.0072	0.0014	<b>Feldspat; Feldspar</b>															
CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	MgO	CaO	LiO <sub>2</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	Rb <sub>2</sub> O	LOI	ppm As	ppm Ce	ppm Co	ppm Cs	ppm Cu
UN ZK	74.38	0.039	14.19	0.88	0.73	0.025	0.067	0.43	0.06	4.50	4.06	0.094	0.54	4.8	5.7	7.0	38.7	12.2
	<b>ppm Ga</b>	<b>ppm Hf</b>	<b>ppm Mo</b>	<b>ppm Nb</b>	<b>ppm Ni</b>	<b>ppm Sc</b>	<b>ppm Sn</b>	<b>ppm Ta</b>	<b>ppm Th</b>	<b>ppm Y</b>	<b>ppm Zn</b>	<b>100 g</b>						
	33.3	1.4	21.0	33.5	29.4	3.6	16.8	19.4	4.7	8.4	19.4	<b>Feldspat; Feldspar</b>						

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	TiO <sub>2</sub>	LOI	50 g								
GB 03134	67.96	19.62	0.10	0.48	0.015	0.098	11.26	0.054	0.36	Albit; Albite								
RM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	Fe <sub>2</sub> O <sub>3</sub> tot	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	H <sub>2</sub> O+	H <sub>2</sub> O-	Al	ppm Ba	Ca	ppm Ce
JG JF1	66.69	0.005	18.08	0.06	(<0.04)	0.08	0.001	0.006	0.93	3.37	9.99	(0.003)	0.23	0.13	9.57	1750	0.66	4.19
JG JF2	65.30	0.005	18.52	0.06	(<0.03)	0.06	0.001	(0.004)	0.09	2.39	12.94	0.099	0.24	0.18	9.80	298	0.06	0.84
	ppm Co	ppm Cr	ppm Cs	ppm Cu	ppm Dy	ppm Er	ppm Eu	Fe	ppm Ga	ppm Gd	ppm Hf	ppm Ho	K	ppm La	ppm Li	ppm Lu	Mg	Mn
	0.12	5.48	2.09	0.82	0.39	0.31	0.87	0.06	17.4	0.93	1.18	0.11	8.29	2.80	9.81	0.053	0.004	0.001
	0.68	(2.47)	1.06	0.78	(0.036)	(0.034)	0.59	0.04	17.9	(0.072)	0.19	(0.021)	10.74	0.63	2.19	0.020	-	0.001
	Na	ppm Nb	ppm Nd	P	ppm Pb	ppm Pr	ppm Rb	ppm Sc	Si	ppm Sm	ppm Sr	ppm Ta	ppm Tb	ppm Th	Ti	ppm Tl	ppm U	ppm V
	2.50	0.74	1.46	0.004	33.4	0.48	266	0.23	31.17	0.41	172	0.079	0.076	1.17	0.003	1.18	0.33	5.43
	1.77	0.70	(0.33)	-	48.7	(0.088)	218	0.089	30.52	0.11	200	(0.045)	(0.009)	0.31	0.003	1.10	(0.078)	4.86
	ppm Y	ppm Yb	ppm Zn	ppm Zr	30 g + 100 g													
	2.84	0.35	4.41	38.6	Feldspat													
	2.67	(0.045)	1.40	6.73	Feldspar													
CRM	MgO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Ti <sub>2</sub> O	Fe <sub>2</sub> O <sub>3</sub>	Cr <sub>2</sub> O <sub>3</sub>	MnO	CaO	Cr <sub>2</sub> O <sub>3</sub>	B <sub>2</sub> O <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	100 g						
5 389/1	97.89	0.274	0.104	0.0051	0.607	(0.004)	0.100	0.880	(0.004)	(0.015)	0.0295	Magnesit; High Purity Magnesite						
RM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	LOI	MmO	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	10x20 g				
JR 801	0.35	93.4	2.00	0.21	0.14	3.26	0.19	0.01	0.002	(0.14)	(0.00)	(0.00)	(0.00)	Alumina-Magnesia				
JR 802	3.32	84.2	1.03	1.48	2.00	6.31	0.15	0.46	0.95	(0.06)	(0.00)	(0.00)	(0.00)					
JR 803	0.58	74.2	4.90	2.51	0.57	16.2	0.86	0.00	0.01	(0.36)	(0.00)	(0.00)	(0.00)					
JR 804	5.17	64.6	4.02	0.13	4.76	20.8	0.08	0.04	0.11	(0.01)	(0.02)	(0.01)	(0.00)					
JR 805	2.49	58.0	0.73	1.05	0.28	36.0	0.54	0.01	0.68	(0.17)	(0.00)	(0.00)	(0.00)	nur Satz/set only				
JR 806	0.51	48.8	0.16	0.00	0.97	49.4	0.04	0.00	0.04	(0.21)	(0.02)	(0.00)	(0.00)					
JR 807	0.58	39.9	0.32	0.19	2.75	55.0	0.32	0.15	0.53	(0.57)	(0.00)	(0.00)	(0.00)					
JR 808	0.79	28.6	0.56	0.71	0.99	67.0	0.40	0.69	0.22	(0.84)	(0.01)	(0.00)	(0.00)					
JR 809	0.36	19.8	0.11	2.88	4.47	70.1	0.04	0.98	1.06	(0.48)	(0.00)	(0.00)	(0.00)					
JR 810	4.21	10.0	3.11	1.91	0.18	78.9	0.75	0.16	0.51	(0.22)	(0.01)	(0.00)	(0.00)					

RM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	TiO <sub>2</sub>	MnO	Na <sub>2</sub> O	K <sub>2</sub> O	Cr <sub>2</sub> O <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	B <sub>2</sub> O <sub>5</sub>	10x20 g
JR 401	6.42	8.10	3.89	0.20	81.24	(0.01)	(0.01)	(0.00)	(0.00)	(0.00)	(0.03)	(0.01)	<b>Magnesite</b>
JR 402	5.46	1.99	5.05	3.57	83.77	(0.02)	(0.01)	(0.01)	(0.00)	(0.00)	(0.07)	(0.12)	<b>Magnesites</b>
JR 403	8.14	4.06	1.55	0.61	85.48	(0.00)	(0.01)	(0.00)	(0.00)	(0.01)	(0.04)	(0.03)	
JR 404	1.22	6.01	2.90	1.78	88.02	(0.01)	(0.03)	(0.00)	(0.00)	(0.00)	(0.05)	(0.01)	<b>nur Satz/set only</b>
JR 405	3.47	1.37	1.34	1.69	91.95	(0.05)	(0.07)	(0.00)	(0.01)	(0.01)	(0.12)	(0.01)	
JR 406	1.19	1.13	0.87	4.80	91.85	(0.00)	(0.01)	(0.00)	(0.00)	(0.00)	(0.04)	(0.01)	
JR 407	2.43	0.10	2.14	0.67	94.55	(0.00)	(0.01)	(0.00)	(0.00)	(0.08)	(0.04)	(0.02)	
JR 408	0.46	2.55	0.13	0.67	96.19	(0.00)	(0.01)	(0.00)	(0.00)	(0.00)	(0.01)	(0.09)	
JR 409	0.53	0.20	0.49	0.74	98.03	(0.00)	(0.01)	(0.00)	(0.00)	(0.01)	(0.02)	(0.03)	
JR 410	0.18	0.05	0.05	0.59	99.08	(0.00)	(0.01)	(0.00)	(0.00)	(0.00)	(0.04)	(0.02)	

  

RM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MnO	CaO	MgO	Cr <sub>2</sub> O <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	V <sub>2</sub> O <sub>5</sub>	NiO	ZnO	LOI	12x20 g
JR 501	0.92	2.92	4.80	0.00	0.02	0.92	87.60	2.82	(0.03)	(0.01)	(0.01)	(0.00)	(0.13)	<b>Chrommagnesite</b>
JR 502	3.11	11.98	1.02	0.01	0.01	0.20	76.28	7.49	(0.02)	(0.02)	(0.02)	(0.00)	(0.06)	<b>Chrome Magnesites</b>
JR 503	0.09	7.14	3.00	0.04	0.03	3.81	63.11	13.60	(0.03)	(0.03)	(0.03)	(0.01)	(0.11)	
JR 504	2.18	17.56	4.11	0.01	0.01	2.60	54.85	18.35	(0.03)	(0.01)	(0.01)	(0.01)	(0.12)	<b>nur Satz/set only</b>
JR 505	1.82	7.76	17.76	0.11	0.10	0.49	50.14	21.74	(0.02)	(0.07)	(0.07)	(0.02)	(0.08)	
JR 506	2.16	14.69	7.49	0.13	0.07	0.46	46.65	28.19	(0.01)	(0.08)	(0.09)	(0.01)	(0.07)	
JR 507	5.69	25.02	12.98	0.16	0.11	1.61	22.36	32.03	(0.01)	(0.13)	(0.20)	(0.03)	(0.11)	
JR 508	3.08	3.98	22.70	0.01	0.00	1.03	30.86	38.18	(0.01)	(0.00)	(0.01)	(0.00)	(0.05)	
JR 509	1.96	20.28	10.15	1.20	0.08	2.86	20.45	42.57	(0.01)	(0.11)	(0.04)	(0.03)	(0.13)	
JR 510	4.91	12.21	14.99	0.13	0.17	0.29	16.86	50.38	(0.01)	(0.11)	(0.19)	(0.04)	(0.05)	
JR 511	2.90	6.68	27.22	0.10	0.12	0.07	10.62	52.51	(0.00)	(0.05)	(0.10)	(0.05)	(0.48)	
JR 512	10.57	29.25	26.01	0.04	0.02	4.06	24.81	4.98	(0.01)	(0.01)	(0.01)	(0.01)	(0.02)	

  

CRM	MgO	Cr <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	MnO	100 g
A FF15	74.10	9.54	3.59	2.27	7.42	2.12	(0.10)	(0.04)	0.32	
A FF16	39.44	34.37	5.66	7.23	11.64	1.04	(0.07)	(0.01)	0.18	

  

CRM	Fe	Si	Ca	Al	Ti	Mg	Mn	P	Na	K	Cr	C	B	100 g
EC 778-1	0.67	0.489	0.883	0.297	(0.008)	48.87	0.011	(0.004)	(0.023)	(0.020)	0.102	14.00	0.0012	<b>C-Magnesit; C-Magnesite</b>
EC 779-1	3.73	0.182	1.691	0.105	0.0081	(54.57)	0.503	0.0267	(0.0058)	(0.0020)	(0.0030)	-	0.0116	<b>Magnesit, niedr. B; Magnesite, low B</b>

  

CRM	MgO	Cr <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	75 g
N 8-3-01	86.7	-	0.80	7.50	0.41	2.55	<b>Magnesit; Magnesite</b>
N 8-3-02	85.4	-	1.59	7.35	0.63	2.64	<b>Magnesit; Magnesite</b>
N 8-4-01	48.0	28.21	2.93	11.58	6.08	1.56	<b>Chrommagnesit; Chrome-Magnesite</b>
N 8-4-02	76.2	5.56	2.93	8.72	2.21	2.45	<b>Chrommagnesit; Chrome-Magnesite</b>

CRM	MgO	Cr <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	75 g											
N 92	90.19	-	3.58	1.74	1.11	1.57	<b>Magnesit; Magnesite</b>											
N 95	63.93	18.30	4.05	6.77	3.50	1.23	<b>Chrommagnesit; Chrome-Magnesite</b>											
N 96	46.98	22.37	2.71	11.90	12.92	1.59	<b>Chrommagnesit; Chrome-Magnesite</b>											
N 97	21.26	40.00	5.94	14.73	16.12	0.52	<b>Chrommagnesit; Chrome-Magnesite</b>											
CRM	MgO	SiO <sub>2</sub>	TiO	Al <sub>2</sub> O <sub>3</sub>	FeO	MnO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	CO <sub>2</sub>	C	B	Cu	Ni	Zn	100 g	
UN MK	45.22	0.593	0.019	0.414	2.191	0.160	0.581	0.024	0.013	0.055	50.31	0.13	0.00378	0.00025	0.00049	0.00153	<b>Magnesit; Magnesite</b>	
CRM	MgO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	MnO	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	Ba	Ce	Co	Cr	Cu		
X 43	44.11	5.99	(0.06)	0.26	(0.1)	0.75	(0.05)	(0.04)	(0.01)	(0.01)	(0.02)	(0.0025)	(0.0020)	0.0004	(0.0195)	(0.0015)		
	<b>Ni</b>	<b>S</b>	<b>Sr</b>	<b>Zn</b>	<b>100 g</b>													
	0.0252	(0.04)	0.0008	(0.0010)	<b>Magnesit; Magnesite</b>													
CRM	MgO	Cr <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	Fe <sub>2</sub> O <sub>3</sub>	100 g											
VS K5/1	55.0	22.6	8.62	4.28	1.15	8.48	<b>Chrommagnesit; Chrome-Magnesite</b>											
CRM	MgO	Cr <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Al <sub>2</sub> O	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	CaO	BaO	Na <sub>2</sub> O	K <sub>2</sub> O	Li <sub>2</sub> O	B <sub>2</sub> O <sub>3</sub>	SrO	P <sub>2</sub> O <sub>5</sub>	100 g		
5 389/1	97.89	(0.004)	0.274	0.104	0.0051	0.607	0.100	0.880	-	-	-	-	(0.015)	-	0.0295	<b>Magnesit, rein; HP Magnesia</b>		
5 319/1	95.38	0.0035	1.093	0.109	0.0070	0.291	0.108	3.00	-	-	-	-	(0.002)	-	-	<b>Magnesit; Magnesite</b>		
5 369	53.5	17.2	2.59	14.7	0.14	10.3	0.11	1.17	(<0.01)	0.05	0.03	0.03	-	(<0.01)	-	<b>Chrommagnesit; Chrome-Magnes.</b>		
5 370	61.8	13.4	3.01	12.3	0.13	7.23	0.11	1.54	(<0.01)	0.06	0.03	0.03	-	(<0.01)	-	<b>Chrommagnesit; Chrome-Magnes.</b>		
5 396	64.6	15.6	1.37	5.73	0.26	10.9	0.17	1.12	-	(0.06)	(0.03)	(0.05)	0.09	-	-	<b>Chrommagnesit; Chrome-Magnes.</b>		
RM	MgO	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	Mn <sub>3</sub> O <sub>4</sub>	Cr <sub>2</sub> O <sub>3</sub>	25 g									
CR AN36	93.2	0.49	0.01	0.49	4.71	0.97	0.11	0.06	<b>Magnesit</b>									
CR AN37	93.9	1.41	0.04	1.08	1.87	1.54	0.11	0.005	<b>Magnesite</b>									
CRM	SiO <sub>2</sub>	ppm Al	ppm As	ppm Ca	ppm Cd	ppm Cr	ppm Cu	ppm Fe	ppm Ge	ppm Hg	ppm K	ppm Li	ppm Mg	ppm Mn	ppm Na	ppm Pb	ppm Ti	100 g
B SiO <sub>2</sub>	>99.99	8.7	<0.05	0.42	<0.05	0.062	<0.1	0.62	<1	<0.05	0.5	0.25	<0.2	<0.2	<1	<0.1	1.34	<b>Quarz, High Purity Quartz</b>
RM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	LOI	100 g								
JC R404	>99.99	(ppm11)	(ppm 0.06)	(ppm 6)	(ppm 0.2)	(ppm<0.1)	(ppm 1)	(ppm 0.4)	0.00	<b>Quarzpulver; Quartz Powder</b>								
JC R405	97.78	1.07	0.053	0.022	0.029	0.023	0.060	0.71	0.13	<b>Siliziumpulver</b>								
JC R406	96.71	1.31	0.102	0.564	0.016	0.005	0.030	0.13	0.97	<b>Silica Powder</b>								

nur Satz/set only



CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Cr <sub>2</sub> O <sub>3</sub>	MnO	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	Li <sub>2</sub> O	LOI	100 g	
5 313-1	99.78	0.036	0.017	0.012	(<0.001)	0.00013	0.006	0.0013	0.003	0.005	(0.0005)	(0.1)	Silika, hoch rein; High Purity Silica	
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	MnO	TiO <sub>2</sub>	100 g			Glassände, siehe Seite 6.14.3 Glass Sands, see page 6.14.3	
X 49	99.6	(0.05)	(0.05)	(0.05)	(0.01)	(0.05)	(0.01)	(0.01)	(0.01)	Quarz; Quartz				
CRM	SiO <sub>2</sub>	CaO	MgO	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	100 g							
CM 1781	98.38	0.009	0.021	0.57	0.45	0.20	Silika; Silica							
RM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MnO	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	10x20 g				
JR 201	84.36	9.71	1.46	0.03	0.14	2.77	0.73	0.31	0.14	Silikastein				
JR 202	85.72	7.59	3.97	0.56	0.00	0.81	0.02	1.01	0.02	Silica Brick				
JR 203	87.33	5.09	1.78	0.18	0.11	3.97	0.47	0.61	0.24					
JR 204	89.64	4.49	2.08	0.15	0.10	1.79	0.31	0.31	0.90	nur Satz/set only				
JR 205	90.40	3.08	1.24	0.32	0.06	3.11	0.09	0.93	0.50					
JR 206	92.88	1.77	3.20	0.01	0.01	1.20	0.07	0.18	0.50					
JR 207	94.05	1.70	0.96	0.07	0.04	2.51	0.16	0.04	0.21					
JR 208	94.43	0.46	0.06	0.00	0.00	4.19	0.05	0.63	0.02					
JR 209	96.22	0.87	0.37	0.05	0.06	1.89	0.10	0.03	0.17					
JR 210	97.69	0.16	0.83	0.00	0.00	0.30	0.78	0.02	0.00					
CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	75 g								
N 8-2-01	93.69	0.80	0.40	0.82	2.73	Dinas, Silikastein; Silica Brick								
N 8-2-02	95.29	0.68	0.21	0.48	1.93									
N 8-2-03	98.05	0.85	0.18	0.25	-									
N 8-2-04	92.55	0.79	0.87	0.90	3.11									
N 8-2-05	91.90	0.62	1.24	0.76	3.81									
N 8-2-06	92.59	0.70	0.82	1.11	2.53									
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	100 g					
A FF11	92.24	4.14	0.40	0.49	0.10	0.11	0.04	0.46	Silikastein					
A FF12	96.38	0.77	0.59	0.34	0.97	0.05	0.03	0.10	Silica Brick					
CRM	Si	Ca	Mg	Al	Ti	Fe	K	100 g						
EC 777-1	44.44	2.026	0.043	0.421	0.266	0.232	0.128	Silikastein; Silica Brick						
CRM	Al <sub>2</sub> O <sub>3</sub>	CaO	Fe <sub>2</sub> O <sub>3</sub>	Li <sub>2</sub> O	MgO	MnO	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Na <sub>2</sub> O	TiO <sub>2</sub>	ZrO <sub>2</sub>	LOI	SiO <sub>2</sub>	45 g
3 198	0.16	2.71	0.66	0.001	0.07	0.008	0.022	0.017	0.012	0.02	<0.01	0.21	Rest	Silikastein
3 199	0.48	2.41	0.74	0.002	0.13	0.007	0.015	0.094	0.015	0.06	0.01	0.17	Rest	Silica Brick
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	MgO	MnO	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	TiO <sub>2</sub>	LOI	50 g		
IP 63	96.28	0.48	2.21	0.52	0.043	0.18	0.008	0.013	0.013	0.030	0.17	Silikastein; Silica Brick		

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	MnO	TiO <sub>2</sub>	P	Na <sub>2</sub> O	K <sub>2</sub> O	100 g				
VS K1	96.2	0.50	0.046	1.45	1.32	0.027	0.110	0.013	-	-	Silikastein				
VS K2	60.8	32.25	0.69	0.51	3.21	0.058	1.64	-	0.21	0.67	Silica Brick				
VS K3	33.7	62.7	0.31	0.48	1.14	-	-	-	0.307	0.174					
CRM	ZrO <sub>2</sub>	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	CaO	MgO	100g	ZrO <sub>2</sub> = ZrO <sub>2</sub> + HfO <sub>2</sub>					
AS 008	60.62	32.66	0.103	0.097	0.063	0.090	(0.012)	(0.004)	Zirkonsand; Zirconium Sand						
CRM	ZrO <sub>2</sub>	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	BaO	P <sub>2</sub> O <sub>5</sub>	LOI	HfO <sub>2</sub>	ThO <sub>2</sub>	U <sub>3</sub> O <sub>8</sub>	Y <sub>2</sub> O <sub>3</sub>	100 g
5 358	92.5	0.2	0.1	0.2	0.05	1.5	3.5	0.1	-	0.1	1.6	-	-	-	Zirkonerde; Zirconia
5 388	66.2	32.7	0.291	0.232	0.049	-	-	-	0.12	-	1.30	0.018	0.034	0.136	Zirkonsand; Zircon
RM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	HfO <sub>2</sub>	LOI	10x20 g	
JR 601	0.26	0.11	0.10	0.16	5.58	0.06	0.00	0.00	0.00	0.00	92.01	1.59	(0.07)	Zirkonerde/Zirkon	
JR 602	0.33	0.07	1.61	0.16	0.22	5.29	0.76	0.00	1.33	0.01	88.25	1.52	(0.25)	Zirconia/Zirkon	
JR 603	0.96	5.29	2.85	0.93	0.95	0.96	0.18	0.65	0.83	0.02	84.70	1.45	(0.11)		
JR 604	3.04	6.91	0.42	0.13	0.09	0.01	1.08	1.93	1.99	3.06	79.18	1.35	(0.23)	nur Satz/set only	
JR 605	10.78	4.83	0.17	0.12	1.93	1.99	0.45	0.54	0.35	1.54	75.27	1.31	(0.31)		
JR 606	22.03	0.53	0.93	0.11	0.02	0.32	2.02	0.01	0.01	0.00	72.35	1.26	(0.32)		
JR 607	32.75	3.51	0.12	0.13	0.04	0.03	0.02	0.04	0.08	0.00	61.31	1.21	(0.56)		
JR 608	34.62	0.70	0.09	0.10	0.52	3.12	0.03	0.01	0.11	0.49	58.84	1.21	(0.06)		
JR 609	40.50	0.88	0.15	0.15	0.30	0.15	0.94	0.02	0.08	0.01	55.56	1.12	(0.12)		
JR 610	45.66	0.45	0.30	0.09	3.07	0.54	0.04	0.01	0.11	0.00	48.70	0.98	(0.07)		
CRM	ZrO <sub>2</sub>	HfO <sub>2</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	CaO	MgO	Cr	S	100 g			
X 13	64.01	1.29	32.45	0.295	0.61	0.187	0.23	(0.14)	(440ppm)	(23ppm)	-	Zirkonkonzentrat			
VS K7/1	92.2	-	0.66	-	-	0.73	-	5.39	-	-	-	Zircon-Concentrate ZrO <sub>2</sub> =ZrO <sub>2</sub> + HfO <sub>2</sub>			
VS K8/2	65.9	-	32.3	0.160	1.16	0.081	0.110	-	-	-	0.0064				
CRM	Zr	Hf	Ti	50 g											
IG 35	48.96	1.13	0.16	Zirkon; Zircon											
CRM	ZrO <sub>2</sub>	SiO <sub>2</sub>	HfO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	ppm U <sub>3</sub> O <sub>8</sub>	ppm ThO <sub>2</sub>	100 g					
X 62	64.2	32.8	1.31	0.13	0.88	0.07	0.12	354	158	Zirkon; Zircon					
RM	ZrO <sub>2</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	Li <sub>2</sub> O	LOI	25 g	ZrO <sub>2</sub> = ZrO <sub>2</sub> + HfO <sub>2</sub>		
CR 2CAS15	64.6	34.1	0.18	0.36	0.08	0.52	0.11	0.03	0.02	<0.01	0.25	Zirkon; Zircon			
CR AN46	15.7	45.5	0.50	30.5	0.85	0.21	5.36	0.15	1.01	0.01	0.08	Zirkon, Faser; Zircon Batt			
RM	ZrO <sub>2</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	SnO <sub>2</sub>	LOI	100 g		
5 204a	53.8	37.6	2.22	0.74	0.18	0.15	0.012	0.017	0.014	0.77	1.69	0.50	Zirkon; Zircon		
RM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	ZrO <sub>2</sub>	LOI	100 g								
CJ R501	32.6	0.39	0.6	0.16	66.5	0.11	Zirkonsand								
CJ R502	32.8	5.87	0.10	0.24	60.3	0.26	Zircon Sand								

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	CaO	MgO	S	K <sub>2</sub> O	PbO	ZnO	P <sub>2</sub> O <sub>5</sub>	LOI	100 g				
EC 752-1	0.70	0.12	0.009	0.045	0.010	55.4	0.15	0.007	0.02	-	-	(0.005)	43.4	<b>Kalkstein; Limestone</b>				
EC 782-1	0.266	0.104	0.0042	0.450	0.081	30.34	21.29	(0.006)	0.0260	0.0029	0.0082	0.0128	47.25	<b>Dolomit; Dolomite</b>				
CRM	CaO	MgO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	100 g											
VS K4/2	31.3	20.1	0.93	0.46	0.56	0.033	<b>Dolomit; Dolomite</b>											
CRM	CaO	H <sub>2</sub> O	Be	B	CO <sub>2</sub>	F	Na <sub>2</sub> O	MgO	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	S	K <sub>2</sub> O	TiO <sub>2</sub>	V	Cr	MnO	Fe <sub>2</sub> O <sub>3</sub>
VS 813-89	29.48	0.4	0.00013	0.0005	45.6	0.02	0.07	20.75	0.43	2.69	0.011	0.02	0.35	0.025	0.0025	0.0006	0.050	0.47
	FeO	Co	Ni	Cu	Zn	Rb	Sr	Zr	Ba	Pb	Ra	Th	U	100 g				
	0.36	0.00030	0.0005	0.0008	0.003	0.0005	0.009	0.0030	0.003	0.0008	2e-10	0.00010	0.00015	<b>Dolomitmalkstein; Dolomitized Limestone</b>				
CRM	CaO	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	MnO	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	SiO <sub>2</sub>	Na <sub>2</sub> O	SrO	ZnO	S	TiO <sub>2</sub>	CO <sub>2</sub>	H <sub>2</sub> O	LOI	75 g	
3 1d	52.85	0.526	0.3191	0.301	Mn=0.0209	0.0413	0.1358	4.080	0.0109	0.0303	0.0022	0.1028	(0.0306)	-	-	(41.57)	<b>Kalkstein; Limestone</b>	
3 88b	30.12	0.336	0.277	21.03	0.0160	0.0044	0.1030	1.13	0.0290	0.0076	-	-	(0.016)	(46.37)	(0.24)	(46.98)	<b>Dolomit; Dolomite</b>	
CRM	CaO	MgO	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	Mn <sub>3</sub> O <sub>4</sub>	TiO <sub>2</sub>	SO <sub>3</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	LOI	100 g						
DK 1a	55.4	0.39	0.64	0.04	0.05	0.01	<0.01	0.02	0.01	0.01	43.3	<b>Kalkstein</b>						
DK 1b	43.6	3.00	9.5	1.25	3.20	0.02	0.15	0.13	0.13	0.96	37.7	<b>Limestone</b>						
DK 2a	29.2	19.5	4.3	1.01	0.91	0.06	0.07	0.06	0.04	0.37	44.3							
CRM	CaO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	TiO <sub>2</sub>	SO <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	CO <sub>2</sub>	Cl	LOI	50 g			
GB 03105a	54.03	1.09	0.24	0.11	0.81	0.084	0.017	0.010	0.018	0.0081	0.0067	(43.12)	0.0028	43.12	<b>Kalkstein</b>			
GB 03106a	51.61	2.09	0.33	0.17	2.25	0.17	0.017	0.015	0.016	0.0061	0.0089	(42.59)	0.0066	42.84	<b>Limestone</b>			
GB 03107	49.94	3.76	1.25	0.78	2.18	0.50	0.026	0.059	0.11	0.040	0.019	(41.19)	0.016	41.35	<b>Dolomit</b>			
GB 03108	47.49	3.84	0.88	1.97	3.63	0.23	0.024	0.14	0.090	0.040	0.19	(41.13)	0.0062	41.52	<b>Dolomite</b>			
CRM	CaO	MgO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	S	K <sub>2</sub> O	Na <sub>2</sub> O	LOI	70 g								
CM 1763	28.57	19.84	5.01	1.05	0.56	0.020	0.680	0.031	43.95	<b>Dolomit; Dolomite</b>								
CRM	CaO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	S	LOI	80 g										
CM 1767	55.15	0.451	0.105	0.158	0.24	0.025	43.38	<b>Kalkstein; Limestone</b>										
CRM	CaO	MgO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MnO	K <sub>2</sub> O	Na <sub>2</sub> O	Fe <sub>2</sub> O <sub>3</sub>	S	P	LOI							
GB 07214a	55.34	0.29	0.22	0.093	0.005	0.019	0.007	0.085	0.043	0.0011	43.61	50 g	<b>Kalkstein</b>					
GB 07215a	51.20	2.29	1.80	0.77	0.014	0.168	0.025	0.446	0.302	0.0013	42.57	50 g	<b>Limestone</b>					
GB 07216a	35.02	17.88	0.049	0.024	0.020	(0.001)	0.013	0.495	0.0093	0.0012	46.32	70 g	<b>Dolomit</b>					
GB 07217a	32.11	20.37	0.021	0.017	0.032	0.0011	0.023	0.224	0.018	0.0010	46.89	70 g	<b>Dolomite</b>					

CRM	CaO	MgO	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	K <sub>2</sub> O	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	Ba	Ge	Co	Cr	Cu	Ni	Pb
VS 3193-85	38.48	6.04	12.35	0.09	1.87	2.48	1.89	0.28	0.49	0.48	0.027	0.006	0.0018	0.00022	0.0013	0.0004	0.0007	0.0016
	Rb	Sr	Th	V	Zn	Zr	B	Be	Cs	La	Lu	Nb	Sc	U	Y	Yb	100 g	
	0.0015	0.05	(0.0002)	0.0024	0.0025	0.0026	(0.001)	(0.0001)	(0.00007)	(0.0007)	(0.00001)	(0.0008)	(0.0002)	(0.0001)	(0.0009)	(0.0001)	Kalkstein; Limestone	
CRM	CaO	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	CO <sub>2</sub>	H <sub>2</sub> O	S	LOI	70 g			
2 MV	35.78	19.85	0.32	5.96	3.23	0.053	1.70	0.38	1.07	0.057	28.87	2.17	0.12	31.09	Marl			
CRM	CaO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	SrO	Na <sub>2</sub> O	K <sub>2</sub> O	F	S	CO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	LOI	100 g				
UN AK	54.9	0.64	0.11	0.130	0.110	0.28	0.047	0.037	0.20	0.046	43.0	0.029	43.27	Aragonit; Aragonite				
CRM	CaO	Li	Na <sub>2</sub> O	MgO	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Sc	TiO <sub>2</sub>	V	Cr	MnO	Fe <sub>2</sub> O <sub>3</sub>	FeO	Co	Ni	Cu
VS 3192-89	21.56	0.004	1.38	12.89	5.48	19.92	0.060	2.75	0.0008	0.28	0.0030	0.0030	0.30	3.15	1.8	0.0012	0.0018	0.0029
VS 3193-89	38.46	-	0.46	5.97	1.89	12.40	0.030	0.49	0.00022	0.093	0.0023	0.0009	0.28	2.43	1.8	0.00023	0.0005	0.0004
	Zn	Rb	Sr	Y	Zr	Nb	Mo	Sn	Ba	La	Ce	Yb	Pb	Th	U	100 g		
	0.003	0.0057	0.0044	0.0022	0.007	0.0037	0.00008	0.00017	0.04	0.0013	0.0027	0.00025	0.0013	0.0015	0.00008	Kalkstein		
	0.003	0.0015	0.044	-	0.0027	0.0007	-	-	0.005	0.0008	0.0016	0.00009	0.0010	0.00018	0.00010	Limestone		
CRM	CaO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MnO	P <sub>2</sub> O <sub>5</sub>	SrO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	SO <sub>3</sub>	CO <sub>2</sub>	Cr	Cu	LOI	80g	
IP 35	53.8	1.98	0.24	0.14	0.013	0.012	0.008	0.04	0.70	0.004	0.10	-	-	-	-	43.0		Kalkstein
IP 44	50.5	2.69	0.33	0.30	0.019	0.015	0.013	0.04	2.93	0.002	0.12	-	-	-	-	42.9		Limestone
IP 122	32.0	4.35	1.24	0.65	0.06	0.042	0.048	0.018	17.5	0.019	0.43	-	-	-	-	43.3		Dolomit(e)
VB K1	54.58	0.44	0.11	0.097	(0.011)	0.0095	(0.016)	-	0.72	0.020	(0.028)	(0.051)	(43.54)	(0.0025)	(0.00055)	43.70		100g
VB K2	43.19	13.38	3.93	1.39	(0.21)	0.025	-	-	0.65	0.064	0.82	0.22	-	-	-	35.61		
CRM	CaO	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	MgO	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	CO <sub>2</sub>	F	Ba	Co	Cr	Cs	Cu	
Z KH	47.8	8.60	0.130	2.39	0.92	0.33	0.088	0.74	0.41	0.121	37.6	0.057	0.0050	0.00053	0.0015	0.00014	0.0010	
	Hf	Li	Lu	Ni	Rb	Sc	Sm	Sr	Ta	Th	V	Yb	Zn	Zr	25 g			
	0.000078	0.00086	0.000012	0.0020	0.0025	0.00030	0.00022	0.0545	0.000019	0.00026	0.0024	0.000086	0.0022	0.0035	Kalkstein; Limestone			
CRM	CaO	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	CO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	F	ppm Ba	ppm Ce	ppm Cr	ppm Cs	ppm Cu
Z KH2	47.64	8.66	0.130	2.365	0.855	(0.31)	0.0848	0.656	0.106	0.437	37.51	0.117	0.061	46.3	18.1	14.2	1.22	8.3
	ppm Eu	ppm Lu	ppm Ni	ppm Rb	ppm Sc	ppm Sr	ppm Th	ppm Zn	ppm Co	ppm Li	ppm Pb	ppm U	ppm H <sub>2</sub> O	LOI	50 g			
	0.47	0.127	20.3	22.0	2.83	532	2.08	22.9	(10)	(7)	(6)	(8)	(1.26)	(38.87)	Kalkstein; Limestone			

CRM	CaO	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	CO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	S	H <sub>2</sub> O	SO <sub>3</sub>	F			
Z KH3	47.6	8.59	0.130	2.40	0.87	0.32	0.080	0.65	0.10	0.43	37.6	0.117	0.09	(1.4)	(0.2)	(0.061)			
	<b>C(org)</b>	<b>Li<sub>2</sub>O</b>	<b>LOI</b>	<b>50 g</b>															
	(0.14)	(0.0021)	38.6	<b>Kalkstein; Limestone</b>															
CRM	CaO	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	LOI	ppm Ba	ppm Ce	ppm Dy	ppm Er	ppm Eu	ppm Gd	ppm Ho	
UL DWA1	30.84	(0.06)	(0.010)	(0.05)	0.27	(0.06)	21.40	0.042	0.010	(0.023)	47.29	24	2.2	0.82	0.50	0.16	0.81	0.18	
	<b>ppm La</b>	<b>ppm Lu</b>	<b>ppm Nd</b>	<b>ppm Pr</b>	<b>ppm Sc</b>	<b>ppm Sm</b>	<b>ppm Sr</b>	<b>ppm Tb</b>	<b>ppm Th</b>	<b>ppm Tm</b>	<b>ppm U</b>	<b>ppm V</b>	<b>ppm Y</b>	<b>ppm Yb</b>	<b>ppm Zn</b>	<b>20 g</b>			
	3.6	0.05	3	0.67	0.24	0.62	49	0.12	0.08	0.06	1.4	6.9	9.4	0.39	83	<b>Dolomit; Dolomite</b>			
CRM	CaO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub> (t)	MnO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	H <sub>2</sub> O+	H <sub>2</sub> O-	CO <sub>2</sub>	ppm Ba	ppm Cd	ppm Ce	ppm Co	ppm Cr	
JG JLS-1	55.09	0.120	0.0207	0.0178	0.0168	0.00209	0.606	0.00194	0.00297	0.0295	(0.140)	0.105	43.58	476		0.159	0.521	0.0825	3.37
JG JDO-1	33.96	0.216	0.0174	0.0222	0.0208	0.00657	18.47	0.0129	0.00232	0.0343	0.395	0.145	46.50	6.14		0.644	2.49	0.168	7.93
	<b>ppm Cu</b>	<b>ppm Dy</b>	<b>ppm Eu</b>	<b>ppm F</b>	<b>ppm Hf</b>	<b>ppm La</b>	<b>ppm Lu</b>	<b>ppm Nd</b>	<b>ppm Ni</b>	<b>ppm Pr</b>	<b>ppm S</b>	<b>ppm Sc</b>	<b>ppm Sm</b>	<b>ppm Sr</b>	<b>ppm Tb</b>	<b>ppm Th</b>	<b>ppm U</b>	<b>ppm V</b>	
	0.268	0.0283	0.0072	57.5	0.126	0.153	0.0220	(0.136)	0.362	(0.032)	123	0.0307	0.135	295	(0.0041)	0.0287	1.75	3.59	
	1.41	0.814	0.176	246	(0.0897)	7.93	0.0494	5.25	2.90	0.956	(90.5)	0.136	0.788	116	0.116	0.0429	0.858	3.14	
	<b>ppm Y</b>	<b>ppm Yb</b>	<b>ppm Zn</b>	<b>ppm Zr</b>	<b>100 g</b>														
	0.223	0.0164	3.19	(4.19)	<b>Kalkstein; Limestone</b>														
	10.3	0.323	35.4	6.21	<b>Dolomit(e)</b>														
CRM	Ca	Fe	Si	Al	Ti	Mg	Mn	P	S	<b>100 g</b>									
EC 701-1	37.66	0.73	0.93	0.29	0.018	0.36	0.022	0.022	0.040	<b>Zuschlagstoff</b>									
EC 702-1	21.48	0.44	1.04	0.20	0.013	12.37	0.098	0.024	0.027	<b>Admixture</b>									
EC 608-1	6.22	4.00	28.23	5.26	0.428	0.81	0.044	0.053	0.455										
CRM	CaO	SiO <sub>2</sub>	MgO	Al <sub>2</sub> O <sub>3</sub>	P	S	<b>100 g</b>												
VS W10	55.60	0.133	0.38	0.156	0.0136	0.0043	<b>Kalksteinzuschlag; Limestone Flux</b>												
CRM	CaCO <sub>3</sub>	CO <sub>2</sub>	H <sub>2</sub> O	Ba	Cr	Cu	Fe	Mg	Mn	Na	Sr	Zn	<b>100 g</b>						
B CaCO <sub>3</sub>	99.79	43.95	0.13	45.3	<1	<1	<3	183	3.0	47.5	173	<1.5	<b>Calcit; Calcite</b>						

Synthetischer Kalkstein; Synthetic Limestone		70 g																	
CRM	ppm Ag	ppm As	ppm B	ppm Ba	ppm Be	ppm Bi	ppm Cd	ppm Ce	ppm Co	ppm Cr	ppm Cu	ppm Ga	ppm La	ppm Li	ppm Mn	ppm Mo	ppm Nb	ppm Ni	
GB 07712	(0.030)	2.2	2.2	24	0.22	0.23	(0.023)	2.8	2.3	2.3	2.2	2.8	2.6	3.2	37	0.21	2.5	2.1	
GB 07713	0.060	5.2	5	54	0.52	0.53	0.053	5.8	5.3	5.3	5.2	5.8	5.6	6.2	67	0.51	5.5	5.1	
GB 07714	0.11	10.2	10	104	1.0	1.0	0.10	11	10.3	10.3	10.2	10.8	10.6	11.2	117	1.0	10.5	10	
GB 07715	0.21	20	20	204	2.0	2.0	0.20	21	20.3	20.3	20	20.8	20.6	21	217	2.0	20.5	20	
GB 07716	0.51	50	50	504	5.0	5.0	0.50	51	50	50	50	51	50.6	51	517	5.0	50.5	50	
GB 07717	1.0	100	100	1000	10	10	1.0	101	100	100	100	101	101	101	1020	10	100	100	
GB 07718	2.0	200	200	2000	20	20	2.0	200	200	200	200	200	200	200	2020	20	200	200	
GB 07719	5.0	500	500	5000	50	50	5.0	500	-	-	500	-	-	500	5000	50	-	500	
GB 07720	10	-	-	-	100	100	10	-	-	-	1000	-	-	-	10000	100	-	-	
	ppm Pb	ppm Sb	ppm Sn	ppm Sr	ppm Ti	ppm V	ppm W	ppm Y	ppm Yb	ppm Zn	ppm Zr	CaCO <sub>3</sub>	MgCO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> SO <sub>4</sub>	K <sub>2</sub> SO <sub>4</sub>	
	2.4	0.21	0.28	170	31	3.2	0.22	2.1	0.22	3.0	4.0	(85)	(8)	(5.2)	(1.1)	(0.3)	0.2	0.2	
	5.4	0.51	0.58	200	61	6.2	0.52	5.1	0.52	6.0	7.0	(85)	(8)	(5.2)	(1.1)	(0.3)	0.2	0.2	
	10.4	1.0	1.1	250	111	11.2	1.0	10	1.0	11.0	12	(85)	(8)	(5.2)	(1.1)	(0.3)	0.2	0.2	
	20.4	2.0	2.1	350	210	21	2.0	20	2.0	21	22	(85)	(8)	(5.2)	(1.1)	(0.3)	0.2	0.2	
	50	5.0	5.1	650	510	51	5.0	50	5.0	51	52	(85)	(8)	(5.2)	(1.1)	(0.3)	0.2	0.2	
	100	10	10	1150	1010	101	10	100	10	101	102	(85)	(8)	(5.2)	(1.1)	(0.3)	0.2	0.2	
	200	20	20	2200	2000	200	20	200	20	200	202	(85)	(8)	(5.2)	(1.1)	(0.3)	0.2	0.2	
	500	50	50	5200	5000	500	50	-	50	500	500	(85)	(8)	(5.2)	(1.1)	(0.3)	0.2	0.2	
	1000	100	100	-	-	-	100	-	100	1000	-	(85)	(8)	(5.2)	(1.1)	(0.3)	0.2	0.2	
CRM	ppm Ag	ppm As	ppm B	ppm Ba	ppm Be	ppm Bi	ppm Cd	ppm Ce	ppm Co	ppm Cr	ppm Cu	ppm La	ppm Li	ppm Mn	ppm Mo	ppm Nb	ppm Ni	ppm Pb	
GB 07701	(0.034)	2.0	2.1	24	0.26	0.31	0.022	2.0	2.6	2.3	2.0	2.1	15	27	0.21	2.3	2.6	2.5	
GB 07702	0.064	5.0	5.1	54	0.56	0.61	0.052	5.0	5.6	5.3	5.0	5.1	18	57	0.51	5.3	5.6	5.5	
GB 07703	0.11	10	10.0	104	1.1	1.1	0.1	10.0	10.6	10.3	10.0	10	23	107	1.0	10.3	10.6	10.5	
GB 07704	0.21	20	20	204	2.1	2.1	0.2	20	20.6	20.3	20.0	20	33	207	2.0	20.3	20.6	20.5	
GB 07705	0.51	50	50	504	5.1	5.1	0.5	50	50.6	50	50	50	63	507	5.0	50	50.6	50	
GB 07706	1.0	100	100	1000	10	10	1.0	100	101	100	100	100	113	1000	10	100	101	100	
GB 07707	2.0	200	200	2000	20	20	2.0	200	200	200	200	200	213	2000	20	200	200	200	
GB 07708	5.0	500	500	5000	50	50	5.0	500	500	500	500	500	513	5000	50	500	500	500	
GB 07709	10.0	-	1000	10000	100	100	10	1000	-	1000	1000	-	1010	10000	100	-	-	1000	
GB 07710	20	-	-	-	200	200	20	-	-	-	2000	-	-	-	200	-	-	2000	
GB 07711	50	-	-	-	500	-	50	-	-	-	5000	-	-	-	500	-	-	5000	
	ppm Sb	ppm Sn	ppm Sr	ppm Ti	ppm V	ppm W	ppm Y	ppm Yb	ppm Zn	ppm Zr	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> SO <sub>4</sub>	K <sub>2</sub> SO <sub>4</sub>	CaMg(SO <sub>4</sub> ) <sub>2</sub>			
	0.28	0.28	5.0	24	2.8	0.20	2.0	0.2	3.0	2.2	(72)	(15)	(4)	(2.5)	(2.5)	(4)			
	0.58	0.58	8.0	54	5.8	0.50	5.0	0.5	6.0	5.2	(72)	(15)	(4)	(2.5)	(2.5)	(4)			
	1.1	1.1	13	104	10.8	1.0	10	1.0	11.0	10.2	(72)	(15)	(4)	(2.5)	(2.5)	(4)			
	2.1	2.1	23	204.5	20.8	2.0	20	2.0	21	20	(72)	(15)	(4)	(2.5)	(2.5)	(4)			
	5.1	5.1	53	504	51	5.0	50	5.0	51	50	(72)	(15)	(4)	(2.5)	(2.5)	(4)			
	10	10	103	1000	101	10	100	10	101	100	(72)	(15)	(4)	(2.5)	(2.5)	(4)			
	20	20	203	2000	200	20	200	20	200	200	(72)	(15)	(4)	(2.5)	(2.5)	(4)			
	50	50	500	5000	500	50	500	50	500	500	(72)	(15)	(4)	(2.5)	(2.5)	(4)			
	100	100	1000	10000	1000	100	-	100	1000	1000	(72)	(15)	(4)	(2.5)	(2.5)	(4)			
	200	200	2000	20000	-	200	-	-	2000	-	(72)	(15)	(4)	(2.5)	(2.5)	(4)			
	500	500	5000	-	-	500	-	-	5000	-	(72)	(15)	(4)	(2.5)	(2.5)	(4)			

Wir können Ihnen ferner Referenzmaterialien von der DILLINGER HÜTTE anbieten. Die Werte basieren auf einer Multielementanalyse durch vollständige Proben-Rekonstituierung mittels geprüfter Reinstsubstanzen. Eine separate Zusammenstellung dieser Proben steht zur Verfügung.

We furthermore can offer you reference materials from DILLINGER LABORATORY. The values have been obtained after preliminary multi-element analysis by a complete reconstitution of the test sample using high purity compounds as primary references. A separate brochure for these samples is available.

CRM	CaF <sub>2</sub>	SiO <sub>2</sub>	P	S	CaCO <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	Na <sub>2</sub> O	65 g
GB 07250	94.91	4.72	0.0025	0.029	(0.02)	0.096	0.019	0.005	Flußspat
GB 07251	90.87	8.35	0.0031	0.090	(0.02)	0.124	0.026	0.005	Fluorspar
GB 07252	92.57	6.84	0.0024	0.043	(0.02)	0.124	0.029	0.006	
GB 07253	85.21	14.15	0.0013	0.045	(0.02)	0.209	0.044	0.005	
GB 07254	98.59	0.87	0.0070	0.011	0.27	0.087	-	-	

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Further products high CaF<sub>2</sub> page 6.7.4

CRM	F	Ba	Sr	55 g
IG 39	46.85	0.44	0.014	Flußspat; Fluorspar

CRM	CaF <sub>2</sub>	F	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	BaO	P	S	Pb	100 g
J C	76.91	37.43	8.2	0.66	8.2	0.026	1.75	0.07	Flußspat
J D	97.07	47.24	(1.5)	0.04	-	0.035	0.004	<0.001	Fluorspar

CRM	CaF <sub>2</sub>	CaCO <sub>3</sub>	SiO <sub>2</sub>	S	P	Al <sub>2</sub> O <sub>3</sub>	Fe	100 g
VS 2665-83	38.00	6.80	25.57	0.32	0.036	-	-	Flußspat
VS 2666-83	32.02	0.70	47.73	1.24	0.055	-	-	Fluorspar Ore
VS 4182-87	32.75	1.70	47.52	0.038	0.114	-	-	
VS 5132-89	32.69	11.75	(27.68)	-	-	-	-	
VS 5133-89	4.17	1.10	-	-	-	-	-	
VS 1822-80	93.86	0.41	3.16	0.410	0.057	-	-	Flußspatkonzentrat
VS 1823-80	95.83	0.20	2.92	-	0.024	-	-	Fluorite Concentrate
VS 3383-86	91.84	-	5.03	0.095	0.063	0.53	0.612	Flußspatpellet; Fluorspar Pellet

CRM	CaF <sub>2</sub>	CaCO <sub>3</sub>	SiO <sub>2</sub>	FeO <sub>3</sub>	MgCO <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	Mn	100 g
X 14	97.32	(0.3)	(0.57)	(0.06)	(0.03)	(0.18)	-	Flußspat
X 15	97.84	0.95	(0.26)	(0.23)	0.55	0.017	0.0213	Fluorspar

CRM	CaF <sub>2</sub>	120 g
3 79a	97.39	Flußspat
3 180	98.80	Fluorspar

CRM	CaF <sub>2</sub>	SiO <sub>2</sub>	CaO	S	CO <sub>2</sub>	BaO	Pb	100 g
5 392	97.2	0.67	0.52	0.12	0.48	0.37	0.18	Flußspat; Fluorspar

CRM	CaF <sub>2</sub>	SiO <sub>2</sub>	CaCO <sub>3</sub>	P	S	As	70 g
9 883-1	75.24	20.16	0.29	0.008	0.39	0.0012	Flußspat; Fluorspar

CRM	F	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	Ca	Na <sub>2</sub> O	S	Bi	Ce	Cu	Eu	La	Mn	Sb	Sc	Sm	Sr
UN FM	34.09	22.59	0.018	0.276	0.498	35.91	0.027	0.92	74ppm	28ppm	55.8ppm	1.23ppm	14ppm	63.6ppm	2.3ppm	0.63ppm	6.1ppm	527ppm
	MgO	CaF <sub>2</sub>	BaSO <sub>4</sub>	K <sub>2</sub> O	CO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	H <sub>2</sub> O	Ag	Co	Cr	Cs	Gd	Hf	Lu	Mo	Nd	Ni	Pb
	(0.025)	(69.1)	(5.98)	(0.095)	(0.09)	(0.023)	(0.2)	(0.11ppm)	(2.5ppm)	(279ppm)	(0.83ppm)	(5.2ppm)	(2.4ppm)	(0.4ppm)	(44.5ppm)	(17.7ppm)	(33ppm)	(65ppm)
	Rb	Ta	Tb	U	V	W	Y	Yb	Zn	Zr	100 g							
	(7ppm)	(0.105ppm)	(1.7ppm)	(2.5ppm)	(5ppm)	(10.2ppm)	(144ppm)	(3.85ppm)	(24ppm)	(31.5ppm)	<b>Flußspat; Fluorspar</b>							

CRM	CaF <sub>2</sub>	SiO <sub>2</sub>	P	S	Fe <sub>2</sub> O <sub>3</sub>	CaCO <sub>3</sub>	100 g
CM 1727	88.54	10.45	0.0007	0.0004	0.21	0.66	<b>Flußspat</b>
CM 1728	93.62	6.02	0.0005	0.003	0.12	0.08	<b>Fluorspar</b>
CM 1730	90.55	8.98	0.0006	0.0035	0.17	0.10	



RM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	MnO	LOI	3x50 g			
JC R901	59.77	0.924	1.224	0.019	0.438	31.22	0.054	0.004	0.195	0.004	6.14	Talc			
JR R902	60.77	0.115	0.091	0.004	0.342	31.97	0.006	0.003	0.046	(0.002)	6.64	Talc			
JR R903	55.76	2.447	0.564	0.075	0.998	31.84	0.029	0.007	0.051	(0.003)	8.23				
RM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	Li <sub>2</sub> O	LOI	25 g				
CR 2CAS14	62.5	0.01	0.15	0.35	0.28	31.7	0.02	<0.01	<0.01	5.15	Steatit/Talc; Steatite/Talc				
RM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	LOI	100 g				
5 203a	59.7	<0.01	0.30	0.22	0.25	32.08	<0.01	0.02	0.13	6.8	Steatit/Talc; Steatite/Talc				
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	MnO	TiO <sub>2</sub>	CO <sub>2</sub>	H <sub>2</sub> O+	LOI	50 g	
GB 03130	62.03	0.082	0.29	0.38	31.89	0.009	0.022	0.14	0.0015	0.0052	0.34	4.73	5.14	Steatit	
GB 03131	47.71	7.62	2.64	2.39	29.50	0.026	0.049	0.11	0.021	0.52	2.17	7.34	9.40	Steatite	
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	TiO <sub>2</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	MnO	S	LOI	50 g	
GB 03123	50.50	0.39	0.10	0.28	0.022	40.39	0.95	0.14	0.052	0.052	0.096	(0.010)	6.93	Wollastonite	
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	SO <sub>3</sub>	H <sub>2</sub> O+	LOI	50 g	
GB 03126	66.84	23.58	1.94	0.17	0.087	0.38	0.34	0.70	0.20	0.0037	0.61	4.15	5.48	Pyrophyllit	
GB 03127	70.34	22.20	0.22	0.066	0.041	0.028	0.043	0.18	0.11	0.0040	0.17	5.57	6.34	Pyrophyllite	
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	MnO	CO <sub>2</sub>	H <sub>2</sub> O+	50 g			
GB 03128	2.69	0.053	0.49	2.51	61.43	0.0041	0.0066	0.12	0.036	8.08	(25.24)	Brucit			
GB 03129	4.47	0.067	0.40	6.18	56.21	0.0066	0.013	0.12	0.033	9.95	(23.22)	Brucite			
CRM	B <sub>2</sub> O <sub>3</sub>	CaO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	BaO	Fe <sub>2</sub> O <sub>2</sub>	MgO	MnO	K <sub>2</sub> O	Na <sub>2</sub> O	TiO <sub>2</sub>	SO <sub>3</sub>	F	SrO	60 g
3 1835	18.739	21.622	18.408	3.474	0.0497	1.141	3.411	0.0333	1.261	3.484	0.1332	1.477	0.348	0.9418	Borat; Borate

Weitere Flußmittel siehe Seite 6.9.4

Further Fluxes see page 6.9.4

CRM	Ti	Nb	45 g															
IG 32	57.19	0.26	Rutil; Rutile															
CRM	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	Cr <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	V <sub>2</sub> O <sub>5</sub>	CaO	MgO	MnO	100 g								
X 57	85.4	11.8	1.23	0.16	1.72	0.39	0.16	0.98	1.76	Titanschlacke Titanium Slag								
X 59	48.8	50.3	0.61	0.10	0.75	0.25	0.05	0.56	1.05	Ilmenit; Ilmenite								
X 61	93.3	0.68	0.93	0.11	2.03	0.42	(0.09)	(0.06)	(0.01)	Rutil; Rutile								
CRM	TiO <sub>2</sub>	Cr <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	V <sub>2</sub> O <sub>5</sub>	ZrO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	CaO	MgO	90 g								
3 670	96.16	0.23	0.86	0.51	0.66	0.84	-	-	-	Rutil; Rutile								
3 154c	99.591	-	(0.006)	(0.01)	-	-	(0.04)	(0.01)	(0.01)	Titandioxid; Titanium Dioxide								
RM	PbO	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	LOI	25 g							
CR AN28	64.5	32.8	<0.01	22.40	0.03	0.04	<0.01	0.04	0.04	0.13	Pb-Bisilikat; Lead Bisilicate							
CRM	Ca	Si	Ba	Ce	Co	Cu	Eu	Gd	Hf	La	Lu	Mn	Na	Nd	Sc	Sm	Ta	
IJ CTA-AC1	32.7	0.57	0.0767	0.3326	0.000272	0.00540	0.00467	0.0124	0.000113	0.2176	0.000108	0.0317	0.3841	0.1087	0.0000244	0.0162	0.000265	
	Tb	Th	Ti	U	V	Y	Yb	Zn	Al	Fe	Sr	Cr	Dy	Er	Ho	K	Mg	
	0.00139	0.00218	0.2927	0.00044	0.0104	0.0272	0.00114	0.00380	(0.41)	(0.50)	(2.0)	(0.0013)	(0.0078)	(0.0026)	(0.0009)	(0.2088)	(0.0435)	
	Ni	Pr	Zr	P	50 g													
	(0.0009)	(0.0353)	(0.0051)	Rest	Apatitkonzentrat, Spuren; Apatite Concentrate, traces													
CRM	Zn	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Co	Cr	Cs	Cu	Dy	Er	F	Fe	Ga
BF SF1	46.51	0.0235	0.2430	0.3420	0.0000017	(0.0041)	0.0095	(0.3390)	0.4500	(0.0040)	(0.0045)	(0.00015)	1.3100	(0.00024)	(0.00014)	0.0205	12.70	0.00076
	Ge	Hg	Ho	In	K	La	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Ra	Rb
	0.00085	0.00136	(0.00003)	0.0738	0.0525	(0.00034)	0.1010	0.3550	0.00243	0.0119	(0.00005)	(0.00033)	(0.00125)	(0.00076)	1.0200	(0.00005)	(0.00015)	(0.0040)
	Re	S	Sb	Si	Sn	Sr	Tb	Th	Ti	Tl	U	V	Yb	Zr	15 g			
	(0.00001)	32.200	0.0180	0.8740	0.3820	(0.0032)	(0.00003)	(0.00017)	0.0180	(0.0070)	(0.000118)	(0.00038)	(0.00011)	(0.0007)	Sphalerit; Sphalerite			

CRM	Pb	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Cl	Co	Cr	Cs	Cu	Dy	Eu	F
BF GF1	81.90	0.2000	0.0670	0.0580	0.000001	(0.0109)	0.0154	0.0578	0.0245	(0.00005)	(0.0375)	(0.0023)	0.0372	(0.00008)	0.1150	(0.00005)	(0.00004)	0.0315
	Fe	Gd	Ge	Hg	Ho	I	In	K	La	Lu	Mg	Mn	Mo	Na	Nb	Ni	P	Pr
	0.6100	(0.00006)	(0.00065)	0.000021	(0.000006)	(0.00009)	0.0011	(0.0164)	(0.0039)	(0.00001)	0.0240	0.0180	(0.00048)	(0.0061)	(0.000004)	(0.0007)	(0.00011)	(0.000017)
	Ra	Rb	S	Sb	Se	Si	Sm	Sn	Sr	Ta	Th	Ti	Tl	U	V	Yb	Zn	15 g
	(0.0001)	(0.00034)	14.28	0.1800	(0.0032)	0.2970	(0.00025)	0.2500	(0.0005)	(0.0002)	(0.00007)	0.00108	(0.0100)	(0.000031)	(0.0002)	(0.00007)	1.2550	<b>Galenit Galenite</b>
RM	Sn	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Cl	Co	Cr	Cs	Cu	Dy	Er
BF KC1	74.27	0.0002	0.22	0.004	(0.0007)	(0.0078)	(0.0002)	0.007	0.155	(0.00014)	(0.0584)	(0.0150)	(0.00031)	(0.0006)	(0.0180)	(0.0035)	(0.00164)	(0.00089)
	Eu	F	Fe	Ga	Gd	Ge	Hf	Ho	In	K	La	Li	Lu	Mg	Mn	Mo	Na	Nb
	(0.00004)	(0.12)	0.23	0.0006	(0.0024)	(<0.0003)	0.013	(0.00035)	(0.001)	(0.11)	(0.02)	(<0.0003)	(0.000152)	(0.09)	0.002	0.001	(0.0065)	0.07
	Nd	Ni	Pb	P	Pr	Rb	Sb	Sc	S	Sm	Sr	Si	Ta	Tb	Te	Th	Ti	Tl
	(0.02)	0.002	0.032	(0.026)	(0.005)	0.0014	(0.0005)	(0.001)	0.005	(0.00238)	(0.0006)	(0.58)	0.009	(0.00024)	(<0.0003)	(0.007)	0.46	(0.0000047)
	Tm	U	V	W	Y	Yb	Zn	Zr	15 g									
	(0.0002)	(0.000625)	0.009	0.38	0.007	(0.00093)	0.012	0.37	<b>Kassiterit; Cassiterite</b>	<b>Sn-Erze/Ores Seite/Page 6.3.10</b>								
CRM	CeO <sub>2</sub>	Tb <sub>4</sub> O <sub>7</sub>	Dy <sub>2</sub> O <sub>3</sub>	CaO	CuO	Fe <sub>2</sub> O <sub>3</sub>	NiO	PbO	SiO <sub>2</sub>	Pr <sub>6</sub> O <sub>11</sub>	Y	10 g						
GB 02901	4.80ppm	10.5ppm	21.6ppm	8.15ppm	1.51ppm	6.19ppm	9.8ppm	2.81ppm	34.0ppm	10.4ppm	Rest	<b>Yttriumoxid; Yttrium Oxide</b>						
CRM	La <sub>2</sub> O <sub>3</sub>	CeO <sub>2</sub>	Pr <sub>6</sub> O <sub>11</sub>	Nd <sub>2</sub> O <sub>3</sub>	Sm <sub>2</sub> O <sub>3</sub>	Gd <sub>2</sub> O <sub>3</sub>	Tb <sub>4</sub> O <sub>7</sub>	Dy <sub>2</sub> O <sub>3</sub>	Ho <sub>2</sub> O <sub>3</sub>	Er <sub>2</sub> O <sub>3</sub>	Tm <sub>2</sub> O <sub>3</sub>	Yb <sub>2</sub> O <sub>3</sub>	Lu <sub>2</sub> O <sub>3</sub>	Y <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	SiO <sub>2</sub> (ac)		
GB 02902	12.8ppm	3.4ppm	15.2ppm	11.8ppm	15.3ppm	16.8ppm	12.2ppm	11.3ppm	15.0ppm	12.6ppm	10.2ppm	16.3ppm	11.6ppm	17.2ppm	31.1ppm	30.0ppm		
	SiO <sub>2</sub> (bas)	CaO	Fe <sub>2</sub> O <sub>3</sub>	NiO	CuO	ZnO	PbO <sub>2</sub>	Eu	5 g	ac = acid/bas = base								
	(40.5ppm)	13.0ppm	7.2ppm	9.6ppm	6.7ppm	15.6ppm	8.0ppm	Rest	<b>Europiumoxid; Europium Oxide</b>									
CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	CaO	BaO	Na <sub>2</sub> O	K <sub>2</sub> O	Cr	Cu	Mn	Ni	Pb	Rb	Sr	Th	V
UN KB	74.21	0.557	14.47	1.68	0.251	0.158	0.094	0.074	0.67	0.0044	0.0019	0.0053	0.0013	0.0028	0.0051	0.0122	0.00132	0.0051
	Y	Zn	Zr	100 g														
	0.00118	0.0033	0.0115	<b>Kieselgur; Diatomaceous Earth</b>														

CRM	REO	ThO <sub>2</sub>	La <sub>2</sub> O <sub>3</sub>	CeO <sub>2</sub>	Pr <sub>6</sub> O <sub>11</sub>	Nd <sub>2</sub> O <sub>3</sub>	Sm <sub>2</sub> O <sub>3</sub>	Eu <sub>2</sub> O <sub>3</sub>	Gd <sub>2</sub> O <sub>3</sub>	Tb <sub>4</sub> O <sub>7</sub>	Dy <sub>2</sub> O <sub>3</sub>	Ho <sub>2</sub> O <sub>3</sub>	Er <sub>2</sub> O <sub>3</sub>	Tm <sub>2</sub> O <sub>3</sub>	Lu <sub>2</sub> O <sub>3</sub>	Yb <sub>2</sub> O <sub>3</sub>	Y <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>
IG 41	64.21	0.121	20.90	32.24	2.74	7.61	0.52	0.075	0.151	0.068	157ppm	34ppm	49ppm	10.5ppm	500ppm	800ppm	664ppm	0.82
	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	CO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	SO <sub>3</sub>	Cl	F	MnO	BaO	SrO	PbO	90 g		
	0.073	0.42	0.265	4.52	0.135	97ppm	20.12	1.265	1.215	0.41	4.37	0.06	1.58	2.26	0.13	<b>Bastnäsit(e)</b>		

CRM	Li <sub>2</sub> O	45 g
3 181	6.39	Spodumene
3 182	4.34	Petalite
3 183	4.12	Lepidolite
		Lithiumerze
		Lithium Ores

CRM	TR <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	BaO	CaO	FeO	MgO	MnO	SrO	K <sub>2</sub> O	S	F	CeO <sub>2</sub>	Eu <sub>2</sub> O <sub>3</sub>	Sm <sub>2</sub> O <sub>3</sub>	Y <sub>2</sub> O <sub>3</sub>	ppm Cu
UN TRV	13.82	0.079	8.34	17.02	13.54	3.61	2.27	1.15	5.92	0.15	6.05	1.57	6.64	0.042	0.22	0.048	0.0415
	ppm Dy	ppm Mo	ppm Pb	ppm Zn	LOI	100 g	TR <sub>2</sub> O <sub>3</sub> =Seltene Erden Oxid;		Total Rare Earth Oxide								
	0.2071	0.0714	0.3329	0.7679	17.17		Seltene Erden Erz;		Rare Earth Ore								

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	MnO	P <sub>2</sub> O <sub>5</sub>	CO <sub>2</sub>	S	H <sub>2</sub> O	C(graph)	Ash	Volatile	50 g
GB 03118	49.84	12.93	6.73	0.57	9.37	6.10	2.54	1.60	0.084	0.13	3.60	1.18	2.60	2.91	-	-	Graphiterz
GB 03119	49.34	13.03	6.99	0.64	5.34	5.35	2.17	1.56	0.054	0.14	0.67	2.59	2.80	9.91	-	-	Graphite Ore
GB 03120	10.34	5.60	1.48	0.55	0.74	0.50	0.99	0.23	0.022	0.16	0.28	0.14	1.98	76.50	20.78	2.72	

CRM	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	ZrO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	V <sub>2</sub> O <sub>5</sub>	Cr <sub>2</sub> O <sub>3</sub>	CaO	MgO	MnO	ZnO	K <sub>2</sub> O	Na <sub>2</sub> O	SO <sub>3</sub>	LOI	60 g		
3 600	40.0	17.0	20.3	1.31	0.060	0.039	0.060	0.024	0.22	0.05	0.013	0.003	0.23	0.022	0.19	20.5	90 g	Bauxit	
3 69b	48.8	7.14	13.43	1.90	0.29	0.118	0.028	0.011	0.13	0.085	0.110	0.0035	0.068	(0.025)	0.63	27.2		Bauxite	
3 696	54.5	8.70	3.79	2.64	0.14	0.050	0.072	0.047	0.018	0.012	0.004	0.0014	0.009	(0.007)	0.21	29.9			
3 697	45.8	20.0	6.81	2.52	0.065	0.97	0.063	0.100	0.71	0.18	0.41	0.037	0.062	(0.036)	0.13	22.1			
3 698	48.2	19.6	0.69	2.38	0.061	0.37	0.064	0.080	0.62	0.058	0.38	0.029	0.010	(0.015)	0.22	27.3			
CRM	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	CO <sub>2</sub>	H <sub>2</sub> O+	ppm Be	ppm Co	ppm Cu	ppm La	ppm Mo	ppm Ni	
2 BAH	50.72	6.63	2.49	22.59	0.130	0.52	0.67	0.041	0.044	0.090	0.80	15.10	6.0	34	42	103	31	174	
	ppm Sc	ppm Sr	ppm V	ppm Zn	ppm Zr	70 g													
	46	130	670	86	140	Bauxit; Bauxite													
CRM	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	Li <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	ZrO <sub>2</sub>	LOI	100 g					
5 394	88.8	4.98	3.11	1.90	(0.08)	0.08	0.12	0.02	0.02	(<0.01)	0.22	(0.15)	(0.40)	Bauxit, gesintert; Calcined Bauxite					
CRM	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	ppm Cr	ppm Cu	ppm Mn	ppm Ni	ppm Pb	ppm Sr	ppm Zn	LOI	100 g				
5 395	52.4	1.24	1.93	16.3	0.05	0.02	453	21	42	34	28	23	43	27.8	Bauxit; Bauxite				
CRM	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O	TiO <sub>2</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	LOI	50 g									
GB 03133	85.07	8.17	1.18	3.76	0.24	0.21	0.44	0.080	0.29	Bauxit; Bauxite									
CRM	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	TiO <sub>2</sub>	K <sub>2</sub> O	ZnO	MnO	V <sub>2</sub> O <sub>5</sub>	ZrO <sub>2</sub>	LOI	70 g							
IP 131	54.1	0.78	11.5	0.15	1.77	0.022	0.013	0.31	0.042	0.35	30.0	Bauxite							
RM	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	MnO <sub>2</sub>	V <sub>2</sub> O <sub>5</sub>	ZnO	P <sub>2</sub> O <sub>5</sub>	Cr <sub>2</sub> O <sub>3</sub>	C(org)	MgO	K <sub>2</sub> O	ZrO <sub>2</sub>	LOI	100 g			
CA BXT01 (B)	58.3	0.95	5.1	3.46	0.57	0.02	0.07	0.002	0.13	0.065	0.08	0.02	0.01	0.09	31.8	Bauxite			
CA BXT02 (B)	50.9	1.56	17.8	1.87	0.04	0.01	0.06	0.009	0.15	0.068	0.07	0.09	0.01	0.05	27.0				
CA BXT03 (B)	54.1	3.79	11.7	1.05	<0.01	0.01	0.04	0.002	0.02	0.016	0.03	0.01	<0.01	0.06	28.9				
CA BXT04 (B)	48.5	2.68	17.0	5.32	0.02	0.00	0.19	0.003	0.13	0.090	0.12	0.05	0.03	0.06	25.7				
CA BXT05 (B)	46.8	1.98	19.2	2.25	1.13	0.32	0.11	0.026	0.38	0.108	0.28	0.08	0.01	0.06	27.2				
CA BXT06 (B)	48.7	0.80	18.9	2.67	0.13	0.27	0.13	0.023	0.61	0.134	0.14	0.06	0.01	0.07	27.2				
CA BXT07 (B)	44.6	2.41	25.2	2.41	0.01	0.08	0.07	0.006	0.14	0.047	0.08	0.04	0.01	0.07	24.7				
CA BXT08 (B)	51.5	3.17	9.6	9.41	0.02	0.02	0.19	0.006	0.26	0.048	0.07	0.04	0.02	0.10	25.6				
CA BXT09 (B)	53.4	7.57	14.5	2.98	0.01	0.03	0.06	0.04	0.07	0.037	0.20	0.002	0.01	0.12	20.8				
RM	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	Li <sub>2</sub> O	Mn <sub>3</sub> O <sub>4</sub>	LOI	25 g							
CR AN29	88.6	6.17	3.28	1.72	0.07	0.09	0.04	0.03	<0.01	<0.01	0.09	Bauxit; Bauxite							
RM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	ZrO <sub>2</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	LOI	100 g							
CJ R301	7.24	87.5	1.40	2.90	0.13	0.03	0.02	0.03	0.04	0.07	0.35	Bauxit, calciniert							
CJ R302	3.45	90.6	1.76	3.17	0.30	0.02	0.03	0.02	0.02	0.05	0.22	Burned Bauxite							

RM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	ZrO <sub>2</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	LOI	100 g
CJ R303	5.55	89.49	1.51	2.93	0.110	0.012	0.006	-	-	0.064	-	Bauxit, calciniert; Burned Bauxite
CJ R304	35.90	55.94	0.585	1.33	0.105	0.427	0.451	0.273	0.329	-	4.26	Sillimanit; Sillimanite
CJ R041	28.11	70.18	0.598	0.185	0.058	0.059	0.190	0.197	0.174	0.136	-	Mullit; Mullite

nur Satz/set only

RM	F	Fe	Si	Al	S	Na	100 g
CA CAA (C)	40.5	0.053	0.26	13.5	1.71	30.6	Kryolith
CA CAB (C)	44.3	0.067	0.16	11.9	2.59	30.1	Cryolite
CA CAC (C)	44.7	0.039	0.24	11.9	2.16	32.9	
CA CAG (C)	47.7	0.013	0.035	12.2	1.28	31.8	

RM	F	Fe	Si	Na	S	P	Ca	100 g
CA ALF01	62.0	0.009	0.070	0.32	0.28	0.0100	0.017	Aluminium Fluorid
CA ALF02	63.0	0.010	0.130	0.26	0.26	0.0100	0.014	Aluminium Fluoride
CA ALF03	64.3	0.009	0.120	0.27	0.25	0.0090	0.014	
CA ALF04	63.0	0.007	0.100	0.29	0.31	0.0090	0.016	
CA ALF05	63.3	0.006	0.090	0.29	0.10	0.0060	0.015	
CA CAA (AF)	60.6	0.056	0.50	1.16	0.11	0.0017	0.026	
CA CAB (AF)	57.2	0.056	0.42	1.00	0.16	0.0026	0.024	
CA CAC (AF)	61.8	0.049	0.68	0.92	0.20	0.0017	0.024	
CA CAN (AF)	62.4	0.018	0.100	0.22	0.23	0.0090	0.160	
CA CAO (AF)	57.7	0.020	0.130	0.69	-	0.0040	0.180	

RM	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	Na <sub>2</sub> O	C(org)	LOI	100 g
CA RM01 (RM)	16.8	5.4	53.8	5.9	3.5	1.4	0.36	12.0	Rotschlamm, Bayer Verfahren
CA RM02 (RM)	13.9	6.2	30.7	22.6	11.2	3.0	0.16	8.4	Red Mud, Bayer Process
CA RM03 (RM)	13.3	4.6	49.2	6.5	8.3	1.4	0.28	12.1	
CA RM04 (RM)	20.6	13.9	29.0	6.0	7.7	6.8	0.43	12.7	
CA RM05 (RM)	21.9	15.7	35.6	7.1	0.9	8.3	0.22	8.9	
CA CAN (RM)	27.9	16.5	4.7	8.5	13.5	8.5	0.23	17.3	

RM	CaF <sub>2</sub>	NaF/AlF <sub>3</sub>	AlF <sub>3</sub>	MgF <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	a-Al <sub>2</sub> O <sub>3</sub>	LiF	100 g
CA BA01	6.2	1.06	12.4	-	7.0	1.5	-	Electrolysebad
CA BA02	5.7	1.12	10.8	-	2.7	0.3	-	Electrolytic Bath
CA BA03	5.7	1.46	0.9	-	4.1	<0.2	-	
CA BA04	7.4	1.25	6.4	-	5.5	3.2	-	
CA BA05	4.5	1.02	11.3	-	23.6	17.3	-	
CA BA06	4.5	1.00	12.2	-	23.3	16.7	-	
CA BA07	8.3	1.23	6.9	-	6.8	5.3	-	
CA BA08	9.0	1.37	3.2	-	7.3	4.6	-	
CA BA09	9.5	1.44	1.3	-	7.8	5.8	-	
CA BA10	6.7	1.30	5.2	-	6.0	4.9	-	
CA BA11	8.1	1.46	1.1	-	5.3	2.9	-	
CA BA12	6.0	-	3.8	0.21	4.2	2.8	2.72	
CA BA13	5.4	-	0.6	0.24	4.2	0.7	2.47	
CA BA14	3.65	-	1.4	3.40	3.3	1.9	2.04	
CA BA15	6.9	-	5.7	0.28	6.0	4.4	0.95	
CA BA16	6.3	-	3.7	0.22	4.0	3.3	3.08	
CA BA17	5.4	-	0.6	0.16	5.1	3.4	2.61	

RM	CaF <sub>2</sub>	NaF/AlF <sub>3</sub>	MgF <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	100 g
CA CCB (EB)	21.3	1.71	0.19	2.6	<b>Elektrolysebad</b>
CA CCC (EB)	9.2	-	0.25	4.0	<b>Electrolytic Bath</b>
CA CCE (EB)	4.0	1.51	0.19	10.6	

RM	Na <sub>2</sub> O	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	V <sub>2</sub> O <sub>5</sub>	P <sub>2</sub> O <sub>5</sub>	Ga <sub>2</sub> O <sub>3</sub>	SO <sub>3</sub>	TiO <sub>2</sub>	ZnO <sub>2</sub>	LOI	100 g
CA ALU01	0.27	0.013	0.016	0.017	0.002	0.0005	0.011	0.12	0.004	0.001	1.2	<b>Tonerde</b>
CA ALU02	0.25	0.007	0.017	0.009	0.002	0.0005	0.011	0.12	0.002	0.002	0.78	<b>Alumina</b>
CA ALU03	0.44	0.010	0.011	0.010	0.001	-	0.009	0.05	0.006	0.001	0.77	
CA ALU04	0.46	0.021	0.017	0.020	0.003	-	0.009	0.07	0.009	0.001	0.49	
CA ALU05	0.37	0.014	0.008	0.033	0.001	-	0.007	0.13	0.002	0.010	0.83	
CA ALU06	0.36	0.017	0.008	0.043	0.001	-	0.005	0.11	0.001	0.009	1.31	
CA ALU07	0.46	0.025	0.023	0.049	0.004	-	0.006	0.17	0.004	0.001	0.89	
CA ALU08	0.42	0.007	0.022	0.008	0.003	-	0.014	0.09	0.002	0.001	0.57	
CA ALU09	0.42	0.018	0.008	0.026	0.001	0.0002	0.009	0.08	0.001	0.001	0.60	
CA ALU10	0.37	0.005	0.015	0.004	0.002	0.002	0.013	0.08	0.002	-	0.6	

RM	F	Si	CO <sub>2</sub>	Fe	P	100 g
CA CAA (RF)	35.4	8.3	3.3	(0.46)	0.0038	<b>Flußspat, roh</b>
CA CAB (RF)	35.0	8.6	3.3	-	0.0038	<b>Raw Fluorspar</b>
CA CAC (RF)	35.6	8.5	2.6	0.57	0.0041	
CA CAG (RF)	40.5	2.61	(5.5)	-	0.021	
CA CAH (RF)	37.2	6.4	(2.6)	0.43	0.048	
CA CAI (RF)	30.0	9.3	(4.9)	(0.77)	0.0070	
CA CAJ (RF)	46.4	(0.42)	(0.7)	(0.063)	0.025	
CA CAK (RF)	44.8	0.47	3.30	0.10	0.0052	

RM	F	Si	CO <sub>2</sub>	Fe	P	100 g
CA CAA (FC)	47.2	0.72	0.37	(0.028)	0.0021	<b>Flußspat, Endkonzentrat</b>
CA CAB (FC)	45.6	1.20	1.58	-	(0.0021)	<b>Fluorspar, Final Concentrate</b>
CA CAC (FC)	47.2	0.51	0.53	0.03	0.0021	
CA CAL (FC)	44.8	0.34	3.42	0.09	0.0048	

CRM	CaO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	SO <sub>3</sub>	MgO	K <sub>2</sub> O	TiO <sub>2</sub>	Na <sub>2</sub> O	SrO	P <sub>2</sub> O <sub>5</sub>	Mn <sub>2</sub> O <sub>3</sub>	F	Cl	ZnO
3 1881a	57.58	22.26	7.060	3.09	3.366	2.981	1.228	0.3663	0.199	0.036	0.1459	0.1042	(0.09)	(0.013)	0.0489
3 1882a	39.29	4.01	39.14	14.67	-	0.51	0.051	1.786	0.021	(0.024)	(0.070)	(0.060)	-	-	-
3 1883a	29.52	0.24	70.04	0.078	-	0.19	0.014	(0.020)	0.30	(0.019)	-	(0.003)	-	-	-
3 1884a	62.26	20.54	4.264	2.695	2.921	4.475	0.997	0.186	0.2161	0.2984	0.1278	0.0853	(0.11)	(0.0037)	(0.0101)
3 1885a	62.39	20.909	4.026	1.929	2.830	4.033	0.206	0.195	1.068	0.683	0.1220	0.0478	(0.13)	(0.0040)	(0.0029)
3 1886a	67.87	22.38	3.875	0.152	2.086	1.932	0.093	0.084	0.021	(0.018)	0.022	0.0073	(0.02)	(0.0042)	(0.001)
3 1887a	60.90	18.637	6.202	2.861	4.622	2.835	1.100	0.2658	0.4778	0.322	0.306	0.1186	(0.09)	(0.0104)	0.0667
3 1888a	63.23	21.22	4.265	3.076	2.131	2.982	0.526	0.263	0.1066	0.082	(0.080)	0.1256	(0.11)	(0.0036)	0.107
3 1889a	65.34	20.66	3.89	1.937	2.69	0.814	0.605	0.277	0.195	0.042	0.110	0.2588	(0.05)	(0.0019)	0.0048

Cr <sub>2</sub> O <sub>3</sub>	LOI	Free CaO	4x5 g
0.0588	(1.59)	(0.29)	Portlandzement, gemischt mit Schlacke + Asche; Portland Cement, blended with Slag + Ash)
(0.113)	(0.20)	-	Kalzium Aluminat Zement; Calcium Aluminate Cement
-	(0.35)	-	Kalzium Aluminat Zement; Calcium Aluminate Cement
0.0166	(1.06)	(0.71)	Portlandzement; Portland Cement
0.0195	(1.68)	(2.05)	Portlandzement; Portland Cement
0.0024	(1.56)	(2.16)	Portlandzement, niedr. Fe; Portland Cement, low Fe
(0.009)	(1.43)	0.53	Portlandzement; Portland Cement
(0.0186)	(1.75)	(0.79)	Portlandzement; Portland Cement
0.0072	(3.28)	(0.58)	Portlandzement; Portland Cement

CRM	CaO	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	SO <sub>3</sub>	LOI	25 g
GB 03201a	62.34	20.56	3.16	5.02	0.21	1.40	1.15	0.18	2.29	3.39	Portlandzement; Portland Cement

CRM	CaO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Cr <sub>2</sub> O <sub>3</sub>	Mn <sub>2</sub> O <sub>3</sub>	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	SO <sub>3</sub>	SrO	100 g
5 353	64.8	20.5	3.77	0.16	4.82	(0.02)	0.23	2.42	0.10	0.49	0.077	2.25	0.23	Portlandzement, sulfatres.; Portlandc., S-resist.
5 354	70.0	21.8	4.85	(0.04)	0.30	(0.004)	0.058	0.42	0.10	0.11	0.12	2.25	0.11	Portlandzement, weiß; Portland Cement, white
5 372/1	65.3	20.3	5.37	0.27	3.42	(0.01)	0.074	1.31	0.10	0.75	(0.07)	2.95	(0.05)	Portlandzement; Portland Cement

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	MgO	SO <sub>3</sub>	K <sub>2</sub> O	Na <sub>2</sub> O	LOI	Res/ins	20 g
CI DC62102	20.81	4.54	2.48	0.34	61.42	2.62	2.78	0.61	0.13	(3.91)	0.68	Zement; Cement
CI DC62103	22.26	4.89	3.45	0.24	65.28	1.24	0.40	1.19	0.16	0.69	0.10	Zementklinker; Cement Klinker

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	MgO	SO <sub>3</sub>	K <sub>2</sub> O	Na <sub>2</sub> O	LOI	20 g
CI DC62104	13.07	3.54	2.34	0.17	39.48	1.17	0.70	0.70	0.23	38.18	Rohmehl
CI DC62105	11.04	2.98	2.09	0.16	44.75	1.51	0.09	0.45	0.11	36.45	Raw Meal



CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	SO <sub>3</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	SrO	60 g					
JC CRM-1	20.99	5.26	2.67	65.21	2.13	2.05	0.26	0.56	0.35	0.28	0.06	0.05	Zement					
JC CRM-2	25.66	8.94	2.08	56.33	3.05	-	0.24	0.31	0.50	0.07	0.15	0.07	Cement					
RM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	SO <sub>3</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	SrO	30 g					
JC RM-611	21.84	5.41	3.20	66.25	1.08	0.25	0.40	0.34	0.30	0.59	0.06	0.28	Zement					
JC RM-612	20.12	5.19	2.81	62.95	1.52	4.51	0.52	0.90	0.28	1.02	0.06	0.045	Cement					
JC RM-613	19.51	5.36	2.78	63.00	1.07	6.07	0.23	1.20	0.35	0.15	0.08	0.15						
RM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	SO <sub>3</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	LOI	Res/ins	15x20 g				
JC 601A/1	22.09	5.23	3.01	63.13	1.72	2.22	0.28	0.36	0.31	0.06	0.14	1.25	0.09	601A/1 - 9 Portlandzement; Portland Cement				
JC 601A/2	21.02	5.29	2.86	63.66	1.73	1.83	0.35	0.47	0.30	0.11	0.20	1.96	0.15		601/10 -15 Portlandzement (Hochofen)			
JC 601A/3	20.49	4.54	2.37	65.12	1.50	3.13	0.28	0.41	0.28	0.12	0.08	1.53	0.09	Portland Blast Furnace Slag Cement				
JC 601A/4	20.69	4.69	2.80	65.41	1.38	2.58	0.23	0.51	0.26	0.37	0.04	0.78	0.07					
JC 601A/5	20.32	5.04	2.99	64.93	0.94	2.97	0.31	0.43	0.26	0.10	0.28	1.34	0.12	nur Satz/set only				
JC 601A/6	20.51	4.88	2.71	65.14	1.80	2.55	0.25	0.21	0.25	0.06	0.19	1.26	0.10					
JC 601A/7	22.42	4.18	4.01	63.11	1.02	2.33	0.14	0.32	0.24	0.06	0.06	1.70	0.13					
JC 601A/8	23.09	3.73	4.00	63.36	1.50	1.85	0.08	0.49	0.27	0.18	0.20	0.95	0.11					
JC 601A/9	23.72	3.45	4.10	64.10	0.77	1.88	0.21	0.35	0.16	0.06	0.11	0.89	0.10					
JC 601A/10	23.03	6.25	2.38	61.07	2.64	2.03	0.15	0.58	0.52	0.12	0.14	0.36	0.10					
JC 601A/11	24.36	7.35	2.24	58.33	2.59	1.92	0.24	0.47	0.56	0.20	0.15	1.24	0.08					
JC 601A/12	26.18	8.91	1.81	54.31	3.30	1.93	0.23	0.43	0.73	0.16	0.18	1.45	0.14					
JC 601A/13	25.99	9.16	2.01	54.46	2.97	1.19	0.28	0.38	0.41	0.06	0.60	1.73	0.51					
JC 601A/14	25.77	8.56	2.02	54.76	3.96	2.09	0.23	0.28	0.66	0.04	0.27	0.95	0.11					
JC 601A/15	29.56	10.70	1.33	49.25	5.05	1.32	0.23	0.36	0.65	0.06	0.48	0.59	0.09					
RM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	SO <sub>3</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	CL	LOI	Res/ins	30 g			
JC 211R	20.77	5.67	2.65	64.37	1.16	2.13	0.22	0.44	0.31	0.10	0.07	0.009	1.86	0.08	Portland Zement; Portland Cement			
RM	20 g Portland Zement			Feinheit Standard	Wert	3220 cm <sup>2</sup> /g Test Methode Japan Industrial Standard JIS R 5201-1997												
JC 102L	20 g Portland Cement			Fineness Standard	Value	3220 cm <sup>2</sup> /g Testing Method Japan Industrial Standard JIS R 5201-1997												
CRM	SO <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	CO <sub>2</sub>	Sr	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MnO	H <sub>2</sub> O	B	Cu	Li	Ba	Co
Z AN	57.6	0.014	0.34	40.7	0.032	0.013	0.65	0.14	(0.22)	(0.003)	(0.023)	(0.002)	(0.5)	100ppm	4ppm	9ppm	14.8ppm	0.25ppm
CRM	Cl	Cr	Cs	Ga	Mo	Rb	Sb	Ta	Th	V	Zn	Zr	50 g					
	0.033ppm	0.90ppm	0.037ppm	4.3ppm	1.2ppm	4.7ppm	0.044ppm	0.007ppm	0.048ppm	18ppm	7.9ppm	13ppm	Anhydrit; Anhydrite					

CRM	CaO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	TiO <sub>2</sub>	SO <sub>3</sub>	CO <sub>2</sub>	H <sub>2</sub> O	Cl	SrO	LOI	50 g			
GB 03109a	39.24	1.68	0.34	0.16	1.74	0.094	0.065	0.016	51.91	(4.02)	0.39	0.033	(0.27)	4.55	Gypsum			
GB 03110a	28.50	7.21	1.92	0.63	4.92	0.38	0.021	0.10	32.55	(8.63)	14.27	0.019	(0.071)	(23.55)				
GB 03111	30.28	4.16	1.14	0.38	3.19	0.23	0.014	0.058	37.64	(5.80)	16.62	0.013	(0.077)	(22.88)				
GB 03111a	32.30	0.63	0.14	0.11	2.47	0.026	0.014	0.010	40.72	(5.44)	17.95	0.0032	(0.096)	23.60				
RM	CaO	SO <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	SrO	LOI	100 g					
5 202a	37.6	54.0	1.33	0.02	0.32	0.1	0.38	0.1	0.1	<0.01	0.4	7.0	Gips; Gypsum					
RM	CaO	SO <sub>3</sub>	MgO	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	SiO <sub>2</sub>	K <sub>2</sub> O	Na <sub>2</sub> O	SrO	V <sub>2</sub> O <sub>5</sub>	Cr <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	H <sub>2</sub> O+	CO <sub>2</sub>	ppm As	ppm Ba	ppm Br
DT GYPA	32.9	46.2	0.18	0.10	0.05	0.011	0.45	0.021	0.009	0.11	-	-	-	19.4	0.47	0.19	(28)	(0.5)
DT GYPB	32.8	41.0	1.80	0.17	0.07	0.010	1.05	0.05	0.021	0.14	-	-	-	17.80	5.0	(0.2)	25	0.4
DT GYPC	30.4	33.0	5.35	0.79	0.40	0.018	3.5	0.36	0.022	0.35	-	-	-	14.37	11.2	2.4	53	1.7
DT GYPD	28.2	36.7	1.73	2.03	1.08	0.025	8.7	0.54	0.07	0.18	-	-	-	16.39	3.6	3	106	1.3
DT FGD1	32.7	46.4	0.007	0.023	0.014	0.03	0.13	0.007	0.005	0.012	0.0003	0.0002	-	20.70	0.02	0.10	-	-
DT FGD2	32.8	45.6	0.019	0.033	0.043	0.05	0.21	0.01	0.02	0.024	0.0009	0.0015	-	20.38	0.62	0.48	-	-
DT TIG1	32.3	43.4	0.12	0.57	0.26	0.04	0.11	0.008	0.036	0.42	0.10	0.036	0.82	20.3	1.41	0.22	-	-
	ppm Cd	ppm Ce	ppm Cl	ppm Co	ppm Cr	ppm Cs	ppm Dy	ppm Eu	ppm F	ppm Hf	ppm La	ppm Lu	ppm Mn	ppm Rb	ppm Sb	ppm Sc	ppm Se	ppm Sm
	0.51	(0.70)	120	(0.2)	(2)	(0.15)	-	0.060	-	0.26	0.24	(0.006)	19	(0.8)	0.04	0.09	-	0.041
	-	1.24	119	(0.7)	(2)	(0.2)	-	0.07	-	(0.32)	0.56	0.007	9	(4)	0.024	0.16	-	0.074
	-	5	156	1.2	4	0.41	-	0.12	-	(0.36)	3	(0.05)	65	11	0.16	0.8	-	0.45
	-	9	234	2.4	9	1.3	-	0.17	-	0.6	5	0.067	200	25	0.28	2	-	0.83
	-	-	(100)	0.02	1.2	-	-	0.02	95	-	0.35	-	2.0	-	0.03	0.023	0.8	0.07
	-	1.7	(115)	0.07	10.2	-	0.48	0.09	320	0.06	2.18	-	2.5	-	0.024	0.166	3.0	0.52
	6	6	400	0.26	246	-	0.42	0.08	230	3.0	2.7	-	36	-	0.05	17.1	-	0.65
	ppm Ta	ppm Tb	ppm Th	ppm Ti	ppm U	ppm V	ppm Yb	ppm Zn	ppm Zr	LOI	100 g							
	-	-	(0.1)	(78)	0.10	-	0.020	7	(9)	20.06	Gips							
	-	-	0.15	74	0.230	-	0.03	7	(16)	22.85	Gypsum							
	-	-	0.51	230	0.72	-	0.17	15	28	25.93								
	0.15	-	1.3	473	0.65	17	0.44	16	29	20.82								
	-	-	0.03	75	-	1.5	-	1.7	-	21.04								
	-	0.07	0.38	75	1.10	5.1	0.27	2.3	(10)	21.33								
	3.1	(2)	2.14	6154	2.5	560	0.31	(32)	(80)	22.03								

CRM	CaO	MnO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	TiO <sub>2</sub>	S	FeO	100 g								
CM 1734	44.87	1.73	36.27	11.35	2.59	0.45	0.55	0.33	<b>Hochofenschlacke</b>								
CM 1735	46.61	0.425	36.61	7.46	5.95	0.60	1.559	0.26	<b>Blast Furnace Slag</b>								
CRM	CaO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe	FeO	MgO	MnO	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	S	Cr <sub>2</sub> O <sub>3</sub>	Ga	V <sub>2</sub> O <sub>5</sub>	P	100 g		
CM 1737	0.57	11.80	61.16	38.48	-	0.29	8.70	9.39	-	0.150	1.40	0.20	19.030	0.0807	60 g	<b>Hochofenschlacke</b>	
CM 1738	42.45	39.62	7.84	0.33	0.41	8.18	0.22	0.39	0.0074	0.53	-	-	-	-	<b>Blast Furnace Slag</b>		
CM 1739	41.55	39.95	7.64	0.62	0.77	8.07	0.31	0.41	0.018	0.43	-	-	-	-			
CM 1740	40.46	40.66	8.28	0.42	0.53	7.61	0.23	0.45	0.010	0.581	-	-	-	-			
CRM	Ca	Fe	Si	Al	Ti	Mg	Mn	P	S	100 g							
EC 802-1	30.62	0.576	15.16	8.53	0.366	2.87	0.460	0.109	0.714	<b>Hochofenschlacke</b>							
EC 803-1	30.93	0.613	17.01	6.98	0.301	2.44	0.552	0.118	0.767	<b>Blast Furnace Slag</b>							
CRM	CaO	MgO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe	FeO	Mn	P	S	Zn	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	100 g			
G 271	43.92	5.08	41.31	4.75	1.56	-	0.61	0.011	0.540	0.040	0.35	0.42	-	<b>Hochofenschlacke</b>			
G 272	43.85	5.25	41.68	4.79	0.93	-	0.61	0.010	0.540	0.050	0.34	0.42	-	<b>Blast Furnace Slag</b>			
G 273	43.40	1.96	42.40	7.10	1.10	-	0.88	0.010	0.580	0.003	0.62	0.67	0.25				
G 274	43.35	4.68	38.95	5.24	3.37	-	0.63	0.011	0.570	0.002	0.32	0.45	0.20				
G 275	44.29	5.19	41.00	4.72	0.55	-	0.60	0.011	0.370	0.002	0.85	1.01	0.16				
G 276	38.62	5.75	10.95	1.05	25.10	22.07	4.87	0.415	0.076	0.010	0.016	0.004	-				
G 277	35.68	6.38	16.31	1.63	23.64	21.68	4.02	0.394	0.066	0.012	0.033	0.020	-				
G 278	51.69	3.30	17.45	1.51	12.30	10.97	4.43	0.430	0.136	0.004	0.035	0.012	0.20				
CRM	CaO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe	MgO	MnO	TiO <sub>2</sub>	S	K <sub>2</sub> O	Na <sub>2</sub> O	100 g						
GB 01703	40.98	36.09	12.30	0.30	7.17	0.142	0.44	0.92	0.91	0.38							
CRM	CaO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Cr <sub>2</sub> O <sub>3</sub>	MgO	MnO	P <sub>2</sub> O <sub>5</sub>	Fe	S	TiO <sub>2</sub>	75 g						
N 141	26.22	22.47	2.74	(0.85)	(4.02)	10.85	2.14	21.37	0.081	0.63	<b>Hochofenschlacke</b>						
N 142	29.56	22.16	3.13	0.55	5.38	12.09	2.08	16.52	0.067	0.69	<b>Blast Furnace Slag</b>						
N 143	42.90	4.88	(0.50)	0.97	5.29	2.84	16.71	14.53	0.083	0.15							
N 144	20.50	22.18	2.42	1.32	2.85	9.72	2.02	28.47	0.091	0.55							
N 145	20.85	22.43	2.39	0.99	2.71	9.26	2.05	27.97	0.089	0.56							
N 146	40.56	11.38	4.29	0.69	5.47	5.52	2.11	20.30	0.165	0.39							
N 147	40.29	12.87	4.40	0.48	5.20	5.45	2.44	19.59	0.146	0.50							
N 148	39.76	6.52	1.62	0.86	4.94	3.78	10.84	18.44	0.112	0.25							
N 149	9.85	8.42	3.36	53.81	2.89	3.74	(0.03)	14.09	0.040	0.22							
N 150	21.77	15.69	3.23	1.74	(14.46)	8.16	0.62	24.23	0.044	0.15							
N 151	34.83	15.97	2.06	0.65	5.05	8.44	7.92	14.94	0.079	0.53							
N 152	21.95	15.91	2.60	28.67	6.17	4.85	(0.12)	14.40	0.028	0.37							
N 153	15.17	12.12	3.37	36.50	16.68	4.47	(0.01)	7.09	0.036	2.26							
N 154	(1.15)	48.67	3.68	1.54	2.44	(28.00)	(0.03)	10.65	0.074	0.27							
N 155	34.35	19.19	10.20	0.68	4.70	3.91	4.26	13.17	0.124	0.38							
N 156	34.66	15.20	7.80	0.75	4.66	3.81	5.98	16.35	0.111	0.36							

CRM	CaO	SiO <sub>2</sub>	MgO	Al <sub>2</sub> O <sub>3</sub>	Fe	MnO	TiO <sub>2</sub>	S	K <sub>2</sub> O	Na <sub>2</sub> O	BaO	P <sub>2</sub> O <sub>5</sub>	ZnO	CdO	PbO	Cr <sub>2</sub> O <sub>3</sub>	75 g
N 7-1-005	38.8	35.3	12.0	10.0	0.21	0.47	0.32	(0.85)	(0.19)	(0.13)	<0.03	<0.02	<0.004	<0.0001	<0.0007	<0.006	<b>Hochfenschlacke Blast Furnace Slag</b>
N 7-1-006	32.7	38.5	16.8	7.05	0.59	1.24	0.34	(0.56)	(0.61)	(0.35)	(0.12)	<0.04	<0.004	<0.0001	<0.0007	<0.03	
N 7-1-007	31.2	39.0	18.9	6.2	0.55	0.78	0.39	(0.57)	(0.38)	(0.24)	<0.15	<0.02	<0.005	<0.0001	<0.0008	<0.01	
N 7-1-008	42.1	39.1	6.1	8.4	0.30	0.73	0.30	(0.65)	(0.52)	(0.33)	(0.05)	<0.02	<0.004	<0.0001	<0.0007	<0.008	
N 7-1-009	42.6	32.8	1.1	9.2	0.48	0.60	0.38	1.17	(0.19)	(0.14)	(0.10)	<0.05	<0.008	<0.0001	<0.002	<0.02	
N 7-1-010	31.2	44.0	0.73	7.94	5.5	3.40	0.91	0.14	(0.59)	(0.18)	<0.07	<0.2	<0.007	<0.0002	<0.002	<0.08	
N 7-1-011	29.4	21.9	17.5	24.0	1.98	1.97	(0.09)	(0.03)	(0.04)	(0.19)	<0.04	<0.04	<0.06	<0.0002	<0.001	<0.2	
N 7-1-012	0.57	51.4	(0.21)	45.2	1.02	0.06	(0.09)	(0.009)	(0.02)	(0.52)	<0.006	<0.01	<0.005	<0.0001	<0.001	<0.3	
N 7-1-013	28.7	20.3	8.0	38.6	1.12	0.26	0.78	(0.03)	(0.03)	(0.04)	<0.02	<0.02	<0.006	<0.0001	<0.0005	<0.04	
N 7-1-014	30.1	33.6	9.3	24.0	1.27	(0.3)	(0.07)	(0.02)	(0.07)	(0.07)	<0.02	<0.02	<0.04	<0.0001	<0.0006	<0.06	
N 7-1-015	28.0	(44.6)	9.2	14.5	1.7	0.58	(0.08)	(0.02)	(0.08)	(0.1)	<0.02	<0.02	<0.003	<0.0001	<0.006	<0.06	

CRM	CaO	MnO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	TiO <sub>2</sub>	S	FeO	Na <sub>2</sub> O	K <sub>2</sub> O	200 g
T SL1	37.48	(0.86)	35.73	9.63	12.27	(0.38)	1.26	0.92	(0.039)	(0.51)	<b>Hochfenschlacke; Blast Furnace Slag</b>

CRM	CaO	SiO <sub>2</sub>	MgO	Al <sub>2</sub> O <sub>3</sub>	FeO	Fe	MnO	S	K <sub>2</sub> O	Na <sub>2</sub> O	TiO <sub>2</sub>	V <sub>2</sub> O <sub>5</sub>	100 g
VS W1/2	38.8	37.9	9.35	8.48	0.47	-	0.22	0.69	-	-	-	-	<b>Hochfenschlacke</b>
VS W2/2	44.2	37.7	2.78	7.44	-	1.89	0.92	1.94	0.50	0.42	-	-	<b>Blast Furnace Slag</b>
VS W3/2	31.7	30.1	12.1	14.5	-	-	0.38	0.51	-	-	9.62	0.25	

CRM	CaO	MnO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	TiO <sub>2</sub>	S	FeO	K <sub>2</sub> O	100 g
2 NO1	41.52	0.66	38.58	8.17	7.13	(0.27)	(1.5)	0.26	(0.5)	<b>Hochfenschlacke; Blast Furnace Slag</b>

CRM	CaO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	TiO <sub>2</sub>	S	Fe <sub>2</sub> O <sub>3</sub>	Mn <sub>3</sub> O <sub>4</sub>	K <sub>2</sub> O	PbO	ZnO	LOI	100 g
5 362	44.21	9.03	0.667	0.068	0.047	1.48	0.483	0.829	0.14	2.63	2.59	32.81	<b>Abraum; Mine Tailing</b>

RM	CaO	MnO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	TiO <sub>2</sub>	S	Fe	Na <sub>2</sub> O	K <sub>2</sub> O	C	50 g
6 100A	37.6	0.35	35.20	10.16	12.90	0.50	1.80	0.29	0.15	0.48	0.068	<b>100 g Hochfenschlacke</b>
6 SLAG1	30.2	1.11	36.7	18.5	11.01	0.42	1.8	0.28	0.20	0.36	0.07	<b>Blast Furnace Slag</b>
6 SLAG2	44.6	0.19	37.0	10.3	5.87	0.20	1.14	0.23	0.16	0.17	0.20	
6 SLAG3	37.3	1.72	37.44	12.9	8.3	0.63	0.81	0.25	0.26	0.81	0.03	

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CRM	CaO	MnO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	S	Fe	FeO	Fe <sub>2</sub> O <sub>3</sub>	100 g
CM 1744	26.73	2.01	8.91	3.92	12.15	0.32	0.87	-	34.33	36.55	-	Stahlwerkschlacke
CI HC13811	18.11	2.32	23.35	4.47	13.19	0.51	0.91	0.050	29.44	35.40	-	Steelmaking Slag
CI HC13817	35.68	1.24	13.72	7.60	24.36	0.47	0.67	0.070	12.13	-	13.16	

CRM	CaO	MnO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	S	Fe	Cr <sub>2</sub> O <sub>3</sub>	V <sub>2</sub> O <sub>5</sub>	F	FeO	100 g
5 381	49.0	3.16	8.78	0.67	1.03	0.35	15.7	0.19	13.3	0.33	0.94	-	3.69	Stahlwerkschlacke
EC 879-1	43.70	4.45	8.82	0.803	2.19	0.535	8.46	0.102	18.97	0.477	0.738	0.368	-	Steelmaking Slag

CRM	CaO	P <sub>2</sub> O <sub>5</sub>	SiO <sub>2</sub>	100 g
EC 826-1	46.48	14.65	8.96	Phosphatschlacke
EC 827-1	47.38	20.70	6.21	Phosphate Slag

CRM	Ca	Fe	Si	Al	Ti	Mg	Mn	P	S	V	100 g
EC 804-1	36.88	11.92	2.59	(0.42)	0.152	0.88	1.48	7.67	0.127	0.460	Stahlwerkschlacke
EC 805-1	34.96	14.87	3.10	0.326	0.205	1.12	1.59	7.07	0.092	0.514	Steelmaking Slag
EC 806-1	32.97	17.89	5.48	0.477	0.302	1.82	4.60	0.982	0.110	0.288	

CRM	CaO	SiO <sub>2</sub>	Fe	FeO	MgO	MnO	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	S	P	100 g
VS W4/3	25.5	16.7	23.2	25.5	18.3	4.37	3.62	1.02	0.037	0.259	Stahlwerkschlacke; Steelmaking Slag

RM	CaO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	TiO <sub>2</sub>	Fe	MnO	P <sub>2</sub> O <sub>5</sub>	S	Na <sub>2</sub> O	K <sub>2</sub> O	100 g
6 101/1	52.4	23.7	0.61	9.15	0.80	6.25	3.45	0.78	0.18	0.009	0.003	Stahlwerkschlacke
6 101/2	47.0	16.8	0.92	8.12	0.77	15.16	4.76	0.70	0.23	0.031	0.006	Steelmaking Slag
6 101/3	53.7	18.8	1.47	3.1	0.92	10.96	5.2	0.77	0.19	0.028	0.006	
6 101/4	51.9	16.5	0.87	4.6	1.21	13.37	4.7	0.80	0.15	0.023	0.007	
6 101/5	46.0	14.9	0.57	5.5	1.10	19.20	5.7	0.71	0.12	0.043	0.005	

CRM	Ca	Fe	SiO <sub>2</sub>	MgO	Al <sub>2</sub> O <sub>3</sub>	MnO	TiO <sub>2</sub>	K <sub>2</sub> O	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	F	S	50 g	
GB 01704	40.62	13.60	10.24	6.89	0.62	1.88	0.565	-	-	1.03	2.22	0.105		<b>Konverterschlacke</b>
GB 01705	37.39	12.56	13.73	8.33	1.43	3.03	0.520	-	-	1.08	2.06	0.126		<b>Converter Slag</b>
GB 01706	35.27	11.21	19.13	5.18	4.73	3.63	0.445	0.038	0.064	1.15	1.52	0.192		
GB 01707	31.73	5.55	26.40	9.24	7.75	1.93	0.531	0.36	0.12	0.58	0.80	0.459		
GB 01708	25.90	18.82	12.20	11.67	3.08	1.64	0.781	0.052	0.030	0.95	0.85	0.089		
CRM	CaO	Fe	SiO <sub>2</sub>	MgO	Al <sub>2</sub> O <sub>3</sub>	MnO	FeO	S	100 g					
VS W5/1	48.9	17.36	16.10	2.62	1.24	5.11	2.74	0.195						<b>Konverterschlacke; Converter Slag</b>
CRM	Ca	F	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	MgO	100 g								
G EZP1	36.76	31.62	24.85	2.61	(0.85)	<b>Fluoridschlacken</b>								
G EZP2	24.03	(0.89)	41.38	5.81	16.89	<b>Fluorine Slags</b>								
G EZP3	39.53	15.78	19.13	1.68	8.44									
CRM	Ca	CaF <sub>2</sub>	CaO	Al <sub>2</sub> O <sub>3</sub>	C	F	FeO	MgO	MnO	P	SiO <sub>2</sub>	TiO <sub>2</sub>	V <sub>2</sub> O <sub>5</sub>	100g
J S9	39.0	35.5	29.1	31.5	0.042	17.3	0.04	2.2	0.04	0.005	1.4	0.05	0.11	<b>Fluoridschlacke; Fluorine Slag</b>
CRM	CaO	MnO	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	TiO <sub>2</sub>	CaF <sub>2</sub>	FeO	V <sub>2</sub> O <sub>5</sub>	F	Ca	C	P	100 g
J S10	20.3	0.03	7.8	0.54	0.30	0.05	70.7	0.10	<0.01	34.4	50.8	0.022	0.002	<b>Fluoridschlacke; Fluorine Slag</b>
CRM	CaF <sub>2</sub>	SiO <sub>2</sub>	MnO	CaO	MgO	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	S	P	K <sub>2</sub> O	Na <sub>2</sub> O	100 g		
VS W6/1	7.7	39.2	38.5	12.7	1.59	3.01	1.30	0.009	0.070	-	-			<b>Schweißflußmittel</b>
VS W7/2	28.5	23.3	0.40	24.1	11.4	29.7	0.55	0.31	0.011	0.93	1.40			<b>Fused Welding Flux</b>
														<b>Boratflußmittel s. S. 6.6.1</b>
														<b>Borate Flux see page 6.6.1</b>
CRM	CaF <sub>2</sub>	CaO	Al <sub>2</sub> O <sub>3</sub>	Fe	S	P	SiO <sub>2</sub>	C	100 g					
VS W8/2	68.5	52.9	24.6	0.126	0.020	0.012	2.07	0.048						<b>Elektroschlacke-Umschmelzzuschlag; Electro Slag Refining Flux</b>
CRM	Cu	Fe	S	Ag	Co	Ni	Mo	V	250 g					
IM ZM6	2.12	46.72	1.04	0.0031	0.39	0.080	0.021	0.006						<b>Kupfer Konverterschlacke; Copper Converter Slag</b>

CRM	Al <sub>2</sub> O <sub>3</sub>	BaO	CaO	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	MgO	Mn <sub>3</sub> O <sub>4</sub>	P <sub>2</sub> O <sub>5</sub>	SiO <sub>2</sub>	Na <sub>2</sub> O	SrO	SO <sub>3</sub>	TiO <sub>2</sub>	Co <sub>3</sub> O <sub>4</sub>	Cr <sub>2</sub> O <sub>3</sub>	CuO	Li <sub>2</sub> O
AS 010	29.8	0.19	3.27	12.8	0.90	2.11	0.22	0.91	47.3	0.36	0.10	0.62	1.69	(0.006)	(0.017)	(0.014)	(0.018)

	NiO	Rb <sub>2</sub> O	V <sub>2</sub> O <sub>5</sub>	ZnO	ZrO <sub>2</sub>	100 g	Asche-Schmelztemperaturen (Ash fusion temperatures)	reduz. Atmosphäre (Reduc. atmosphere)	oxidier. Atmosphäre (Oxidizing atmosphere)
	(0.009)	(0.008)	(0.053)	(0.021)	(0.055)	Kohlenasche; Coal Ash	Verformung; Deformation Kugel; Sphere Halbkugel; Hemisphere Verflüssigung; Flow	1260 °C 1370 °C 1390 °C 1440 °C	1320 °C 1430 °C 1440 °C 1470 °C

CRM	Al <sub>2</sub> O <sub>3</sub>	CaO	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	MgO	Mn <sub>3</sub> O <sub>4</sub>	P <sub>2</sub> O <sub>5</sub>	SiO <sub>2</sub>	Na <sub>2</sub> O	SO <sub>3</sub>	TiO <sub>2</sub>	30 g
IN 101	22.80	9.31	12.11	1.03	2.52	0.06	0.90	41.00	1.18	5.80	1.32	Kohleasche
IN 102	17.41	1.28	5.11	1.10	0.60	0.06	0.12	69.92	0.16	0.89	1.60	Coal Ash
IN 103	34.35	9.30	2.34	0.82	2.05	0.06	2.69	39.88	0.22	4.32	1.94	
IN 104	28.34	10.80	2.77	0.55	2.93	0.07	1.91	44.80	0.14	4.67	1.60	
IN 105	25.48	1.05	1.60	1.38	0.77	0.01	0.11	66.85	0.13	0.32	1.25	

Referenzproben Kohlen/Koks siehe Katalog Nr. 5  
Reference Samples Coals/Coke see catalogue 5

CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	SO <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	CO <sub>2</sub>	Ag	As	B	Ba	Be	Bi
BF BE1	10.62	0.390	12.53	5.14	0.26	4.65	35.61	0.47	0.180	28.02	0.75	1.81	0.000035	0.00915	0.0611	0.2430	(0.00034)	0.000027
BF BS1	15.05	0.253	5.15	26.93	0.361	4.91	26.96	0.19	0.195	18.90	0.07	0.26	0.00065	0.00415	0.0309	0.1990	0.000215	0.000018
	Br	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	F	Ga	Gd	Ge	Hf	Ho	I	In
	(0.0052)	(0.000073)	0.01023	0.00160	0.00719	0.000104	0.00593	0.00044	0.00028	0.00014	(0.00021)	0.00215	(0.00068)	(0.0037)	0.000345	(0.00014)	(0.00055)	(0.00007)
	(0.0047)	(0.000042)	0.00473	0.00083	0.00498	0.000071	0.00650	0.00032	0.000195	0.00012	(0.0250)	0.0012	0.000473	0.000413	0.000280	(0.000085)	(0.000039)	(0.000043)
	La	Li	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Ra	Rb	Re	Rh	Sb	Sc	Se	Sm	Sn
	0.0055	(0.0133)	(0.0008)	0.000338	0.00150	0.00443	0.0046	0.0047	(0.0017)	1.9e-10	(0.0015)	(0.00002)	(0.00003)	0.00061	0.00190	(0.0010)	0.00085	0.0019
	0.00288	(0.0017)	0.000035	0.00053	0.00123	0.0031	0.00180	0.00375	(0.0010)	8.5e-11	0.00113	(0.00005)	(0.00005)	0.00023	0.000558	(0.00058)	0.00046	0.00175
	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb	Zn	Z	15 g					
	0.3510	0.000122	0.00014	0.00230	(0.000055)	0.000545	0.01233	0.00043	0.00240	0.00025	0.0329	0.0113	Braunkohleasche					
	0.1620	0.00065	0.000365	0.00061	(0.00003)	(0.00051)	0.00370	(0.00036)	0.00190	0.00018	0.0184	0.00765	Brown Coal Ash					

CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	CO <sub>2</sub>	Ag	B	Ba	Be	Ce	Co
VS 7125-94	35.80	0.35	6.79	6.28	0.40	0.094	20.91	6.70	0.22	0.51	0.059	13.20	0.000016	0.0097	0.225	0.00029	0.0038	0.0016
VS 7177-95	58.68	0.60	27.07	5.48	1.50	0.059	4.88	1.48	0.14	0.59	-	-	-	-	-	0.0011	0.0138	0.0025
	Cr	Cu	Eu	Ga	Ge	Hf	La	Li	Lu	Mo	Nb	Nd	Ni	Pb	Rb	S	Sc	Sm
	0.0045	0.0045	0.00009	0.0009	0.00023	0.00026	0.0020	0.0032	0.000040	0.00014	0.00084	0.0020	0.0049	0.0013	0.0015	0.17	0.0011	0.00041
	0.0099	0.0176	-	-	-	-	0.0070	0.0096	-	0.0074	0.0034	-	0.0066	0.0035	0.0022	-	0.0027	-
	Sn	Sr	Tb	Th	U	V	Y	Yb	Zn	Zr	H <sub>2</sub> O+	H <sub>2</sub> O-	C(org)	80 g				
	0.00027	0.33	0.000068	0.00058	0.00033	0.0061	0.0029	0.00026	0.0065	0.0119	(5.74)	(2.41)	(1.33)	Braunkohleasche				
	0.0011	0.0403	-	-	-	0.0145	0.0087	0.00078	0.0077	0.033	-	-	-	Brown Coal Ash				

6.10.2

CRM	Al	Ba	Ca	Fe	K	Mg	Mn	Na	P	Si	S	Sr	Ti	LOI 750°C	Siebrückst.	Feucht.	30 g
3 2689	12.94	(0.08)	2.18	9.32	2.14	0.61	(0.03)	0.25	0.10	24.06	-	(0.07)	0.75	(1.76)	12.8	(0.14)	Kohleflugasche
3 2690	12.35	(0.65)	5.71	3.57	1.00	1.53	(0.03)	0.24	0.52	25.85	0.15	(0.20)	0.52	(0.53)	8.0	(0.12)	Coal Fly Ash
3 2691	9.81	(0.66)	18.45	4.42	0.33	3.12	(0.02)	1.09	0.51	16.83	0.83	(0.27)	0.90	(0.23)	10.5	(0.08)	

CRM	Al	Ca	Fe	Mg	K	Si	Na	S	Ti	ppm As	ppm Ba	ppm Cd	ppm Cr	ppm Cu	ppm Pb	ppm Mn	ppm Hg	ppm Ni	
3 1633b	15.05	1.51	7.78	0.482	1.95	23.02	0.201	0.2075	0.791	136.2	709	0.784	198.2	112.8	68.2	131.8	0.141	120.6	
	ppm Se	ppm Sr	ppm Th	ppm U	ppm V	75 g													
	10.26	1041	25.7	8.79	295.7	Kohleflugasche; Coal Fly Ash													

CRM	ppm As	ppm Be	ppm Cd	ppm Co	ppm Cu	ppm Mn	ppm Pb	ppm Se	ppm V	ppm Zn	ppm Cr	ppm Ba	ppm Hg	Fe	50 g
GB 08401	11.4	10.7	0.16	33.2	53	1178	33.8	1.13	95	61	60	(1450)	(0.039)	7.65	Kohleflugasche; Coal Fly Ash

CRM	Al	Ca	Fe	K	Mg	Na	Si	Ti	As	Ba	Ce	Co	Cr	Cs	Cu	Eu	La	Mn
IR ENO	10.9	3.34	7.49	1.75	1.17	0.551	25.7	0.447	0.1820	0.0674	0.00987	0.00257	0.00961	0.0118	0.00587	(0.0002)	0.00429	0.0630
IR EOP	15.8	(1.68)	5.16	0.64	(0.58)	(0.37)	(22.9)	3.68	0.00791	0.1100	0.0322	0.00532	0.0183	0.00201	0.0229	0.000499	0.0164	0.0440
IR ECH	14.6	(1.86)	5.57	1.32	0.79	(0.29)	(25.0)	1.37	0.00569	0.0711	0.0183	0.00498	0.0183	0.00230	0.0157	0.000295	0.00844	0.0381
	Pb	Rb	Sc	Sr	Th	V	Zn	Zr	Ga	Hf	Lu	Ni	Sb	Sm	Ta	U	Yb	Be
	0.00431	0.0150	0.00204	0.0275	0.00153	0.0195	0.0157	0.0222	0.00290	0.000489	0.000054	0.00709	0.000528	0.000945	0.000122	0.000729	0.000349	0.000430
	0.00407	0.00690	0.00367	0.0574	0.00239	0.0553	0.0219	0.0822	0.00670	0.00177	0.000051	0.0108	0.000194	0.00219	0.00130	0.000944	0.000441	0.00233
	0.00707	0.0141	0.00292	0.0401	0.00221	0.0375	0.0251	0.0361	0.00738	0.000822	0.000061	0.0117	0.000373	0.00136	0.000437	0.000736	0.000363	0.00101
	Cd	Tb	Hg	B	50 g													
	-	-	7.06e-7	0.0291	Kohleflugasche													
	0.000294	0.000193	-	-	Coal Fly Ash													
	0.000306	0.000141	-	-														

RM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	Fe <sub>2</sub> O <sub>3</sub> (t)	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	H <sub>2</sub> O+	H <sub>2</sub> O-	ppm As	ppm Be	ppm C	ppm Co
JG JCFA-1	50.56	1.31	24.25	4.22	0.88	5.2	0.068	2.12	8.91	2.24	1.27	0.586	0.37	0.18	29.1	4.06	13500	37.4
	ppm Cr	ppm Cs	ppm Cu	ppm Li	ppm Ni	ppm Pb	ppm Rb	ppm S	ppm Sb	ppm Sr	ppm V	ppm Zn	100 g					
	75	8.6	122	91	32.2	47.2	54.1	1960	2.1	1100	243	63	Kohleflugasche; Coal Fly Ash					

CRM IR ECR Radionuklide in Kohleflugasche; Radionuclides in Coal Fly Ash 250 ml  
 zertifiziert für; certified for: K-40, Ra-226, Th-232

Informationswerte über; Information values for: Ac-228, Bi-214, Cs-134, Cs-137, Pb-210, Pb-212, Pb-214, Ra-228, Ru-106, Th-228, Th-230, Tl-208, U-234, U-235 und U-238  
 Ausführliches Zertifikat erhalten Sie auf Anfrage; Comprehensive certificate is supplied upon request

CRM	Zn	Pb	Cd	Hg	15 g
J 43	4.96	0.21	0.0023	0.00039	Flugasche, industriellen Ursprungs
J 44	27.3	2.74	0.0469	0.00028	Industrial Fly Ash
J 45	1.53	0.11	0.0047	0.000025	



CRM	Fe	Si	Ca	Mg	Al	Ti	Mn	P	S	Na	K	F	V	Cr	Ni	C	Zn	Pb
EC 876-1	24.85	1.72	3.43	1.31	0.34	0.048	2.84	0.128	0.87	1.98	1.63	0.24	-	0.17	0.034	0.26	23.29	7.82
EC 880-1	31.0	3.34	3.15	0.714	1.28	0.081	0.218	0.038	0.425	0.041	0.108	0.034	-	0.027	0.014	(37.77)	0.064	0.017
	As	Cd	Cu	Cl	100 g													
	0.023	0.13	0.42	3.63	Elektroofenstaub; Electric Furnace Dust													
	-	-	0.005	0.068	Hochofenstaub; Blast Furnace Dust													
CRM	Pb	As	Hg	Fe	Si	S	Zn	Cd	Cu	200 g								
T PD1	2.75	0.76	0.0389	(12.20)	(3.05)	(8.23)	(35.9)	(0.28)	(7.03)	NE-Hüttenstaub; NE-Smelter Dust								
CRM	ppm Co	ppm Cr	ppm Cu	ppm Zn	ppm Ni	ppm Ag	ppm As	ppm Ba	ppm Cd	ppm Mo	ppm Pb	ppm Sb	ppm Sn	ppm Sr	ppm V			
BL 12-1-10	31	189	76	86	47	(1)	(8)	(150)	5	(4)	56	(3)	(40)	(50)	(33)			
BL 12-1-11	8	3910	27	50	36	-	(8)	160	(3)	(10)	(25)	-	(43)	(58)	56			
	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	SO <sub>3</sub>	CO <sub>2</sub>	30 g						
	(9.80)	(1.64)	(12.80)	(7.59)	(0.15)	(0.28)	(0.075)	(60.95)	(0.16)	(2.22)	(5.39)	Stahlwerksstaub, Sinteranlage; Sinter Plant Flue Dust						
	(65.58)	(4.00)	(6.77)	(2.22)	(4.11)	(1.23)	(0.23)	(3.18)	(0.03)	(1.15)	(8.60)	Stahlwerksstaub, Schmelzbetrieb; Foundry Flue Dust						
CRM	Al	Fe	Na	Si	ppm As	ppm Ba	ppm Ce	ppm Co	ppm Cr	ppm Cs	ppm Cu	ppm Dy	ppm Er	ppm Eu	ppm F	ppm Gd	ppm Hf	ppm La
IJ CTA-FFA1	14.87	4.89	2.19	22.48	53.6	835	120	39.8	156	48.2	158	9.09	4.52	2.39	198	10.0	6.09	60.7
	ppm Li	ppm Lu	ppm Mn	ppm Nd	ppm Ni	ppm P	ppm Pb	ppm Rb	ppm Sb	ppm Sc	ppm Sm	ppm Sr	ppm Ta	ppm Tb	ppm Th	ppm Tm	ppm U	ppm V
	128	0.658	1066	56.8	99.0	725	369	185	17.6	24.2	10.9	250	2.11	1.38	29.4	0.705	15.1	260
	ppm W	ppm Y	ppm Yb	ppm Zn	50 g													
	10.5	45.0	4.24	569	Kraftwerksflugasche, Elektrofilter; Power Station Fly Ash, Electrofilter													
CRM	ppm Co	ppm Cr	ppm Cu	ppm Zn	ppm Ni	ppm As	ppm Ba	ppm Be	ppm Cd	ppm Mo	ppm Pb	ppm Se	ppm Sb	ppm Sn	ppm Sr	ppm V	ppm Hg	
BL 12-1-12	23	731	375	10450	198	45	3600	(8)	(60)	(10)	(1389)	4	(67)	(815)	(233)	(69)	7.8	
	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	SO <sub>3</sub>	CO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	30 g					
	(41.78)	(11.92)	(13.68)	(3.41)	(2.56)	(3.23)	(1.14)	(4.44)	(0.46)	(2.22)	(11.05)	(1.77)	Müllverbrennungsasche; Refuse Incineration Ash					
CRM	ppm As	ppm Cd	ppm Co	ppm Cr	ppm Cu	ppm Fe	ppm Hg	ppm Mn	ppm Ni	ppm Pb	ppm Sb	ppm Se	ppm Tl	ppm Zn	ppm S			
H 176	(93.3)	470	30.9	863	1302	21000	31.4	(1.5)	123.5	10870	412	41.2	2.85	25770	44600			
	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	P <sub>2</sub> O <sub>5</sub>	TiO <sub>2</sub>	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	30 g									
	(30.03)	(19.19)	(12.31)	(1.27)	(1.42)	(3.62)	(5.42)	(5.80)	Müllverbrennungsasche; Refuse Incineration Ash									

CRM	ppm As	ppm Cd	ppm Co	ppm Cr	ppm Cu	ppm Fe	ppm Hg	ppm Mn	ppm Ni	ppm Pb	ppm Th	ppm Zn	ppm Na	ppm V	0.47 cm petri slide			
H 128	48.0	4.6	53.8	(178)	176	33800	2.10	479	(194)	262	(17.3)	581	3740	(334)	Flugasche auf künstl. Filtermaterial Fly Ash on Artificial Filters			
RM	ppm Al	ppm As	ppm B	ppm Ba	ppm Be	ppm Cd	ppm Co	ppm Cr	ppm Cu	ppm Fe	ppm Mg	ppm Mn	ppm Mo	ppm Ni	ppm Pb	ppm Sb	ppm Sn	ppm Ti
NO A2	225	8.68	(40)	(40)	1.68	16.9	42.3	54.3	85.2	593	84.6	170	42.7	68.4	42.0	42.6	42.8	42.0
NO B2	125	4.25	(20)	(20)	0.82	8.29	20.7	26.6	41.7	290	41.4	83.1	20.9	33.5	20.5	20.8	21.0	20.5
	ppm Tl	ppm V	ppm W	ppm Zn	ppm Zr	Ø 37 mm												
	2.96	17.6	43.4	256	(40)	Filter, Rauchgase												
	1.45	8.60	21.2	125	(21)	Filter, Welding Fumes												

CRM	SiO <sub>2</sub>	MgO	Cr <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	CaO	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	Na <sub>2</sub> O	K <sub>2</sub> O	H <sub>2</sub> O	CO <sub>2</sub>	S	NiO	CoO	V <sub>2</sub> O <sub>5</sub>
GB 07101	34.34	41.03	1.57	0.67	(4.21)	(2.42)	0.10	0.008	0.004	0.068	0.008	0.010	14.17	0.58	0.051	0.32	0.012	0.007
GB 07102	37.75	38.34	0.42	0.21	(4.85)	(1.97)	1.80	0.004	0.003	0.097	0.028	0.009	12.69	1.66	0.008	0.30	0.013	0.003
	Cl	ppm Ag	ppm As	ppm Au	ppm B	ppm Ba	ppm Cu	ppm F	ppm Ga	ppm Ge	ppm Hg	ppm Li	ppm Pb	ppm Sc	ppm Sr	ppm Zn	ppm Br	ppm Cd
	0.57	0.031	0.82	0.0014	5.9	6.4	5.5	21.4	1.2	0.66	0.046	1.3	2.8	4.9	2.3	45.4	(24.7)	(0.024)
	0.022	0.023	(0.43)	0.004	10.2	10.5	5.3	35.3	0.38	0.63	(0.015)	2.3	3.2	4.8	33.2	43.6	(1.4)	(0.034)
	ppm Sb	ppm Ce	ppm Dy	ppm Eu	ppm Gd	ppm Ho	ppm La	ppm Lu	ppm Nd	ppm Sm	ppm Tb	ppm Tm	ppm Yb	ppm Er	ppm Pr	ppm Y	ppm Pt	ppm Pd
	(0.12)	0.34	0.020	0.0043	0.024	0.0049	0.20	0.004	0.16	0.025	0.0029	0.0030	0.020	(0.014)	(0.045)	(0.14)	0.004	0.005
	(0.050)	0.40	0.021	0.0061	0.031	0.0043	0.21	0.0022	0.10	0.028	0.030	(0.0028)	0.012	(0.012)	(0.047)	(0.14)	0.006	0.002
	ppm Rh	ppm Ir	ppm Os	ppm Ru	150 g													
	0.0006	0.003	0.006	0.010	<b>Gestein, ultrabasisch</b>													
	0.0012	0.003	0.006	0.009	<b>Ultrabasic Rocks</b>													
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	H <sub>2</sub> O	C(org)	CO <sub>2</sub>	ppm Ag	ppm As	ppm B	ppm Ba	ppm Be	ppm Bi	ppm Cd
GB 07103	72.83	13.40	2.14	(1.03)	0.42	1.55	3.13	5.01	(0.61)	-	(0.15)	0.033	2.1	24	343	12.4	0.53	(0.032)
GB 07104	60.62	16.17	4.90	(2.43)	1.72	5.52	3.86	1.8	(1.54)	-	(3.46)	0.071	2.1	4.7	1020	1.1	0.081	0.061
GB 07105	44.64	13.83	13.40	(7.60)	7.77	8.81	3.38	2.32	(2.88)	-	(0.17)	0.040	(0.79)	3.5	527	2.5	(0.045)	0.067
GB 07106	90.36	3.52	3.22	(0.62)	0.082	0.30	0.061	0.65	(0.99)	(0.04)	(0.18)	0.062	9.1	34	143	0.97	0.18	0.060
GB 07107	59.23	18.82	7.60	(1.38)	2.01	0.60	0.35	4.16	(5.6)	(0.15)	(0.077)	0.047	1.4	154	450	3.0	0.23	(0.033)
GB 07108	15.60	5.03	2.52	(1.64)	5.19	35.67	(0.081)	0.78	(2.20)	(0.12)	(32.44)	0.043	4.7	16	120	0.8	0.16	0.069
	ppm Ce	ppm Cl	ppm Co	ppm Cr	ppm Cs	ppm Cu	ppm Dy	ppm Er	ppm Eu	ppm F	ppm Ga	ppm Gd	ppm Ge	ppm Hf	ppm Ho	ppm In	ppm La	ppm Li
	108	127	3.4	(5.0)	38.4	3.2	10.2	6.5	0.85	2350	19	9.3	2.0	6.3	2.05	(0.02)	54	131
	40	(42)	13.2	32.4	2.3	55.4	1.85	0.85	1.02	280	18.1	2.7	0.93	2.9	0.34	(0.033)	21.8	18.3
	105	114	46.5	134	(1.2)	48.6	5.6	2.0	3.2	700	24.8	8.5	0.98	6.5	0.88	(0.063)	56	9.5
	48	(42)	6.4	20	1.8	19	4.1	2.0	1.02	183	5.3	4.5	1.16	6.6	0.75	(0.026)	21	11.1
	109	(40)	21	99	14	42	5.1	2.7	1.7	1290	25.6	6.7	3.1	2.9	0.98	0.082	62	44
	25	(80)	9.0	32	3.2	23.4	1.6	(1.1)	0.51	406	7.1	1.9	0.67	1.8	0.33	(0.042)	14.6	20.5
	ppm Lu	ppm Mn	ppm Mo	ppm Nb	ppm Nd	ppm Ni	ppm P	ppm Pb	ppm Pr	ppm Rb	ppm S	ppm Sb	ppm Sc	ppm Se	ppm Sm	ppm Sn	ppm Sr	ppm Ta
	1.15	463	3.5	40	47	2.3	405	31	12.7	466	(380)	0.21	6.1	(0.059)	9.7	12.5	106	7.2
	0.12	604	0.54	6.8	19	17	1030	11.3	4.9	37.6	(190)	0.12	9.5	(0.063)	3.4	0.79	790	(0.46)
	0.19	1310	2.6	68	54	140	4130	7.2	13.2	37	100	0.083	15.2	(0.086)	10.2	2.0	1100	4.3
	0.30	155	0.76	5.9	21	16.6	970	7.6	5.4	29	860	0.60	4.2	(0.098)	4.7	1.1	58	(0.42)
	0.41	173	0.35	14.3	48	36.8	690	8.7	13.6	205	60	0.17	18.5	(0.084)	8.4	2.0	90	1.0
	0.14	434	0.38	6.6	12.0	17.8	226	18.3	3.4	32	370	0.43	6.0	0.099	2.4	(0.98)	913	(0.46)
	ppm Tb	ppm Te	ppm Th	ppm Ti	ppm Tl	ppm Tm	ppm U	ppm V	ppm W	ppm Y	ppm Yb	ppm Zn	ppm Zr	LOI	70 g			
	1.65	0.021	54	1720	1.93	1.06	18.8	24	8.4	62	7.4	28	167	(0.69)	<b>Granit; Granite</b>			
	0.41	0.017	2.6	3090	(0.16)	(0.15)	0.90	94.5	(0.47)	9.3	0.89	71	99	(4.44)	<b>Andesit; Andesite</b>			
	1.2	(0.022)	6.0	14200	(0.12)	0.28	1.4	167	(0.44)	22	1.5	150	277	(2.24)	<b>Basalt; Basalt</b>			
	0.79	0.038	7.0	1580	0.36	0.32	2.1	33.4	1.16	21.5	1.92	20	214	(1.10)	<b>Sandstein; Sandstone</b>			
	1.02	(0.022)	12.8	3950	0.71	0.43	1.5	87	0.79	26	2.6	55	96	(5.95)	<b>Schiefer; Shale</b>			
	0.35	(0.023)	4.1	1960	(0.36)	0.17	1.9	36	0.67	9.1	0.90	52	62	(34.14)	<b>Kalkstein; Limestone</b>			

CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	H <sub>2</sub> O	CO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	F	S	Cl	C	
GB 07109	54.48	0.48	17.72	6.04	1.23	0.12	0.65	1.39	7.16	7.48	2.38	0.26	0.018	0.048	0.011	0.059	(0.093)	
GB 07110	63.06	0.80	16.1	4.51	0.19	0.089	0.84	2.47	3.06	5.17	1.79	1.03	0.36	0.112	0.023	0.016	(0.29)	
GB 07111	59.68	0.77	16.56	2.64	3.08	0.094	2.81	4.72	4.05	3.50	0.88	0.15	0.34	0.084	0.011	0.023	(0.057)	
GB 07112	35.69	7.69	14.14	9.90	13.36	0.193	5.25	9.86	2.11	0.15	1.09	0.12	0.028	0.006	0.37	0.006	(0.039)	
GB 07113	72.78	0.30	12.96	1.14	1.86	0.14	0.16	0.59	2.57	5.43	1.18	0.52	0.045	0.13	0.009	(0.002)	(0.15)	
GB 07114	0.62	0.015	0.10	0.04	0.15	0.010	21.8	30.02	0.030	0.038	0.34	46.77	0.006	0.014	0.011	0.012	(12.88)	
	ppm Ag	ppm As	ppm B	ppm Ba	ppm Be	ppm Bi	ppm Br	ppm Cd	ppm Ce	ppm Co	ppm Cr	ppm Cs	ppm Cu	ppm Dy	ppm Er	ppm Eu	ppm Ga	ppm Gd
	(0.033)	6.27	31.8	251	17.2	0.37	1.21	0.07	242	4.59	3.6	2.05	11.8	4.70	2.48	2.35	35.8	7.0
	0.17	5.96	10.8	1053	3.64	0.09	(0.55)	0.61	117	7.9	7.7	7.16	9.1	5.32	2.93	1.96	19.8	6.54
	0.066	0.4	3.92	1900	2.11	0.05	(0.34)	0.08	112	15.6	37.6	0.97	8.8	3.20	1.57	1.91	20.8	5.09
	0.05	(0.21)	1.84	86.2	(0.98)	0.04	(0.32)	0.09	4.2	93.0	14.5	(0.17)	28.3	1.11	0.47	0.74	23.7	1.31
	0.08	0.7	3.5	506	4.09	0.60	(0.25)	0.14	163	2.40	7.3	3.34	10.9	8.19	4.31	1.18	20.5	9.47
	0.04	0.23	20.5	44.3	(0.22)	0.03	0.84	0.07	3.58	3.88	2.6	0.07	30.2	0.19	0.09	0.05	(0.21)	0.18
	ppm Ge	ppm Hf	ppm Hg	ppm Ho	ppm I	ppm In	ppm La	ppm Li	ppm Lu	ppm Mo	ppm Nb	ppm Nd	ppm Ni	ppm Pb	ppm Pr	ppm Rb	ppm Sb	ppm Sc
	0.95	34.0	0.005	0.96	0.14	0.15	149	32.9	0.43	0.26	66.9	65.1	1.75	196	22.5	130	0.15	2.22
	1.11	7.5	0.014	1.10	0.07	0.11	62.2	17.5	0.49	0.95	20.8	47.2	12.6	97.7	13.2	183	1.34	7.52
	1.00	5.2	0.035	0.60	(0.078)	0.08	60.5	16.2	0.24	0.47	10.6	48.1	24.4	19.8	13.2	70.1	0.06	10.3
	1.06	0.65	(0.005)	0.20	0.08	0.12	1.71	1.94	0.06	(0.094)	9.3	4.10	69	(5.16)	0.84	(4.79)	(0.04)	22.5
	1.17	10.8	0.005	1.64	(0.093)	0.09	82.7	12.7	0.67	2.46	34.3	64.5	64.5	33.3	18.4	213	0.38	5.15
	0.15	(0.10)	(0.004)	0.04	0.23	(0.066)	1.34	2.30	0.019	(0.24)	(2.77)	1.39	241	(4.44)	(0.44)	(1.42)	(0.04)	0.098
	ppm Se	ppm Sm	ppm Sn	ppm Sr	ppm Ta	ppm Tb	ppm Te	ppm Th	ppm Tl	ppm Tm	ppm U	ppm V	ppm W	ppm Y	ppm Yb	ppm Zn	ppm Zr	100 g
	0.05	9.7	6.50	1160	1.96	1.02	0.012	79.3	0.76	0.46	14.6	179	1.24	24.7	2.56	112	1540	<b>Syenite</b>
	0.03	8.63	3.12	318	1.42	0.99	(0.007)	16.7	1.02	0.50	3.04	64.3	1.62	28.0	3.15	164	335	<b>Andesite</b>
	0.03	7.74	1.44	1198	0.62	0.68	0.011	10.9	0.39	0.26	1.40	104	0.19	15.5	1.56	85.4	224	<b>Granodiorite</b>
	0.26	1.22	0.89	612	(0.56)	0.20	0.010	(0.28)	0.07	0.09	(0.086)	768	(0.10)	4.9	0.36	118	29	<b>Gabbro</b>
	0.040	11.7	3.35	43.0	2.41	1.51	(0.009)	27.1	0.83	0.73	4.83	3.8	1.10	42.5	4.51	86.3	403	<b>Rhyolite</b>
	0.08	0.25	0.53	27.0	(0.18)	0.05	(0.012)	0.11	(0.070)	(0.040)	0.16	2.10	0.11	(1.40)	0.09	11.7	3.0	<b>Dolomite</b>
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	H <sub>2</sub> O	Ba	Be	Co	Cr	Cs	
VS 519-84n	49.1	14.23	15.22	10.26	5.74	10.220	2.49	0.70	1.85	0.21	0.21	0.97	0.023	0.00009	0.0046	0.014	0.00009	
VS 519-88n	47.99	14.63	14.62	10.33	7.51	10.42	2.32	0.46	1.59	0.17	0.21	(0.88)	0.0227	0.00008	0.0052	0.0213	(0.00009)	
	Cu	F	Ga	Ge	Li	Mo	Nb	Ni	Pb	Rb	S	Sc	Sn	Sr	Ta	Th	U	
	0.0222	0.025	0.0016	0.00016	0.0014	0.00017	0.0008	0.0090	0.0005	0.0016	0.04	0.0043	0.00035	0.027	0.00012	0.00026	0.00008	
	(0.0180)	(0.0221)	0.0017	0.00015	0.00086	(0.00009)	0.0006	0.126	(0.0002)	0.0011	(0.026)	0.0041	(0.0002)	0.0197	(0.00035)	(0.0001)	0.000045	
	W	V	Zn	Zr	(RE) <sub>2</sub> O <sub>3</sub>	La	Ce	Pr	Nd	Sm	Eu	Yb	Lu	Y	Ag	Au	As	
	0.00007	0.032	0.015	0.013	0.014	0.0014	0.0026	0.00027	0.0015	0.0005	0.00023	0.00038	0.00005	0.0034	(0.00001)	(0.000005)	(0.00015)	
	-	0.0315	0.0112	0.0125	-	0.0008	0.0022	-	(0.0013)	0.0004	0.00014	0.00033	0.000044	0.0029	(0.000005)	(2.6e-7)	-	
	B	Te	Cd	C(carb)	C	Cl	Sb	Dy	Er	Ho	Tm	Gd	Tb	100 g				
	(0.0007)	(0.00015)	(0.00001)	(0.03)	(0.06)	(0.043)	(0.0001)	(0.0005)	(0.0004)	(0.00013)	(0.00007)	(0.0005)	(0.0001)	<b>Trap</b>				
	(0.00038)	-	-	-	-	-	-	(0.00055)	-	-	-	-	(0.00008)					

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	H <sub>2</sub> O	Ag	Ba	Be	C	Cd
VS 520-84n	73.36	13.84	2.23	1.41	0.05	0.14	5.46	4.14	0.072	0.013	0.20	0.2	0.000010	0.0019	0.0010	0.04	0.000020
	Co	Cr	Cs	Cu	F	Ga	Ge	Li	Mo	Nb	Ni	Pb	Rb	S	Sc	Sn	Sr
	0.00014	0.0012	0.0012	0.0031	0.30	0.0040	0.00033	0.039	0.00010	0.038	0.0011	0.023	0.11	0.013	0.0005	0.0011	0.0020
	Ta	Th	U	W	V	Zn	Zr	(RE) <sub>2</sub> O <sub>3</sub>	La	Ce	Pr	Nd	Sm	Yb	Y	Ho	Tm
	0.0024	0.013	0.0063	0.00023	0.0005	0.027	0.069	0.027	0.0032	0.0062	0.0005	0.0018	0.0005	0.0012	0.0062	0.00015	0.00011
	Lu	As	B	Bi	C(carb)	Gd	Dy	Er	Eu	Sb	Tb	Au	100 g				
	(0.00019)	(0.0001)	(0.0003)	0.0003	(0.02)	(0.0007)	(0.0006)	(0.0006)	(0.00001)	(0.00007)	(0.00008)	(0.0000001)	Granit; Granite				
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	H <sub>2</sub> O	Ag	As	B	Ba	Be
VS 521-84n	46.4	14.88	11.66	6.86	7.0	10.97	2.82	2.96	1.71	1.01	0.17	0.83	0.000010	0.00018	0.0016	0.13	0.00020
VS 521-88n	46.63	14.93	11.33	6.23	6.81	10.68	2.72	3.09	1.72	1.03	0.167	(0.93)	(0.000009)	-	(0.0015)	0.152	0.00019
	C(carb)	Co	Cr	Cs	Cu	F	Ga	Ge	Li	Mo	Nb	Ni	Pb	Rb	S	Sc	Sn
	0.035	0.0040	0.0055	0.00038	0.0068	0.12	0.0019	0.00015	0.0014	0.00015	0.0008	0.0050	0.0017	0.0073	0.014	0.0027	0.00037
	-	0.0040	0.0058	0.00033	0.0058	0.13	0.0017	0.00013	0.0012	0.00014	0.00084	0.0047	0.0015	0.0080	(0.015)	0.0026	0.00032
	Sr	Ta	Th	U	W	V	Zn	Zr	(RE) <sub>2</sub> O <sub>3</sub>	La	Ce	Pr	Nd	Sm	Eu	Yb	Y
	0.23	0.00011	0.0009	0.00020	0.00010	0.024	0.012	0.024	0.047	0.008	0.015	0.0015	0.007	0.0017	0.0005	0.00029	0.0030
	0.224	(0.00005)	0.0008	(0.00019)	-	0.0250	0.0120	0.0219	-	0.0082	0.0163	-	-	0.0017	0.00039	0.00025	0.0030
	Gd	Tb	Dy	Ho	Er	Tm	C	Cl	Sb	Lu	Au	100 g					
	0.0010	0.00014	0.0006	0.00012	0.00032	0.00005	0.06	(0.022)	(0.00015)	(0.00003)	(0.0000002)	Gabbro					
	-	-	(0.00067)	-	-	-	-	-	-	(0.00003)	(0.0000004)						
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	B	Ba	Be	Co	Cr	Cs	Cu
VS 3131-85	47.0	9.48	5.92	6.06	7.76	0.53	2.26	0.50	0.13	0.30	0.007	0.062	0.00024	0.0021	0.0068	0.0004	0.0037
VS 3132-85	60.54	16.46	8.76	1.60	0.41	1.61	2.43	0.98	0.19	0.13	0.007	0.057	0.00028	0.0030	0.014	0.00041	0.0048
VS 3133-85	60.85	14.40	5.45	2.54	2.95	2.33	3.56	0.62	0.18	0.087	0.006	0.091	0.00037	0.0013	0.0088	0.00058	0.019
	Ga	Li	Mo	Nb	Ni	Pb	Rb	Sc	Sn	Sr	V	Y	Zn	Zr	Ag	As	Cd
	0.0011	0.0096	0.00024	0.0011	0.0040	0.0020	0.0061	0.0011	0.0005	0.025	0.011	0.0022	0.005	0.013	(0.00002)	(0.0016)	(0.00023)
	0.0016	0.00716	0.00025	0.0013	0.0072	0.0023	0.0077	0.0020	0.00039	0.013	0.018	0.0030	0.012	0.022	(0.000017)	(0.0038)	(0.00002)
	0.0016	0.0037	0.0010	0.0017	0.0036	0.0058	0.012	0.0017	0.0005	0.028	0.011	0.0026	0.009	0.023	(0.00008)	(0.043)	(0.00015)
	Ce	Ge	La	S	Sb	Yb	LOI	100 g									
	(0.006)	(0.00012)	(0.0038)	(0.037)	-	(0.00028)	20.10	Silt									
	(0.006)	0.00016	0.0043	(0.027)	(0.00019)	0.00043	6.78										
	0.008	0.00014	0.0061	(0.10)	(0.0015)	0.00033	6.39										

CRM	H <sub>2</sub> O	Li	Be	B	CO <sub>2</sub>	F	Na <sub>2</sub> O	MgO	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	S	K <sub>2</sub> O	CaO	Sc	TiO <sub>2</sub>	V	Cr
VS 811-89	4.0	0.006	0.00030	0.008	0.20	0.06	2.31	2.22	18.20	60.67	0.19	0.087	3.43	0.51	0.0019	0.94	0.016	0.0096
	MnO	Fe <sub>2</sub> O <sub>3</sub>	FeO	Co	Ni	Cu	Zn	Ga	Ge	Rb	Sr	Y	Zr	Nb	Mo	Sn	Cs	Ba
	0.042	7.20	4.8	0.0021	0.0059	0.0041	0.012	0.0022	0.00017	0.012	0.017	0.0032	0.021	0.0014	0.00020	0.00032	0.00063	0.09
	Ce	Yb	Ta	Pb	Ra	Th	U	100 g										
	0.007	0.00034	0.00013	0.0020	3e-10	0.0011	0.00025	Feldspat-Quarz Silt; Feldspar-Quartz Siltstone										

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	Li	Be	B	F	S	Sc	V
VS 4317-88	39.2	4.55	12.55	6.8	30.0	4.50	0.18	0.105	0.80	0.100	0.170	0.0009	0.00006	0.016	0.03	0.050	0.0014	0.009
VS 4318-88	57.0	16.5	8.60	5.75	4.05	6.55	3.68	2.10	1.11	0.370	0.150	0.0010	0.00013	0.0020	0.04	0.006	0.0027	0.018
VS 4319-88	57.4	18.1	7.86	3.01	3.15	8.00	3.22	0.84	0.70	0.155	0.170	0.0007	0.00007	0.0020	0.015	0.009	0.0024	0.019
VS 4320-88	63.4	15.7	6.75	4.89	2.13	4.77	2.99	2.37	0.77	0.160	0.190	0.0033	0.00015	0.0010	0.05	0.006	0.0023	0.007
VS 4321-88	68.5	15.9	3.32	2.42	0.71	2.90	3.52	3.62	0.39	0.070	0.055	0.0040	0.0003	0.008	0.04	0.006	0.0010	0.003
VS 4322-88	70.8	15.3	2.00	1.65	0.07	0.76	3.81	3.32	0.012	0.055	0.080	0.33	0.0008	0.004	2.5	0.14	0.0003	0.00025
VS 4323-88	75.7	12.4	1.71	0.69	0.04	0.45	3.83	4.68	0.074	0.006	0.014	0.0038	0.0010	0.0009	0.24	0.006	0.00010	0.00030
	Cr	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	Sn	Sb
	0.2000	0.0120	0.1300	0.0090	0.0085	0.0006	0.0001	(0.0010)	0.0012	0.0035	0.0005	0.0050	0.0010	0.0001	0.000007	(0.0001)	0.0003	(0.0002)
	0.0075	0.0023	0.0040	0.0070	0.0070	0.0017	0.00013	(0.0005)	0.0037	0.0420	0.0034	0.0200	0.0007	0.00015	0.000005	(0.0001)	0.00023	(0.0002)
	0.0026	0.0017	0.0010	0.0035	0.0075	0.0016	0.00015	(0.0003)	0.0011	0.0480	0.0018	0.0090	0.0004	(0.0001)	0.000003	(0.0001)	0.00015	(0.00002)
	0.0038	0.0013	0.0013	0.0069	0.0150	0.0017	(0.00015)	(0.0010)	0.0130	0.0200	0.0025	0.0250	0.0011	0.0001	0.00003	(0.0001)	0.0004	(0.0002)
	0.0030	0.0005	0.0006	0.0045	0.0050	0.0018	0.0002	(0.0020)	0.0200	0.0160	0.0030	0.0200	0.0011	(0.0001)	0.000008	(0.0001)	0.0090	(0.0002)
	0.0045	0.00015	0.0007	0.0040	0.2000	0.0040	0.00027	0.0600	0.1500	0.0140	0.0120	0.0070	0.0050	0.0260	0.00004	0.0005	0.0033	(0.0020)
	0.0026	0.0001	0.0004	0.0022	0.0060	0.0026	0.00016	(0.0007)	0.0450	0.0005	0.0130	0.0180	0.0060	0.0002	0.000005	(0.0001)	0.0011	(0.0008)
	Cs	Be	Ba	Ce	Yb	W	Pb	Bi	Th	U	LOI	100 g						
	0.0002	0.00006	0.004	(0.0020)	(0.00005)	-	0.0002	-	(0.0001)	(0.00003)	0.00076	Olivine-rich Meymechnite						
	0.0002	0.00013	0.060	0.0040	0.0003	-	0.0009	-	0.0003	(0.00008)	0.000040	Bipyroxene Basalic Andesite						
	0.00004	0.00007	0.040	(0.0020)	0.00023	-	0.0007	-	(0.0001)	(0.00003)	0.000040	Hornblende Hyaloandesite						
	0.0060	0.00015	0.051	0.0050	0.0025	-	0.0030	-	0.0009	(0.0002)	0.00008	Hornblende Dacite						
	0.0070	0.0003	0.071	0.0080	0.0003	-	0.0014	0.0002	0.0012	0.0003	0.00006	Albitized Rhodacite						
	0.0040	0.0070	0.007	0.0050	0.0020	0.0070	0.0090	0.0046	0.0038	0.0017	0.00017	Granit/Greisen; Greisenized Granite						
	0.0005	0.0010	0.001	0.0070	0.0013	0.0005	0.0040	-	0.0047	0.0013	0.000050	Bioitic Trachyrhyolite						

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub> (tot)	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	S	Ba	Be	Co	Cr	Cu	Ga
VS 3483-86	45.59	11.60	4.62	5.82	7.05	0.87	2.96	0.63	0.15	0.073	0.05	0.047	0.00020	0.0014	0.0066	0.0048	0.0012
VS 3484-86	51.95	16.76	6.33	1.53	1.13	1.37	2.51	0.85	0.18	0.071	0.05	0.058	0.00023	0.0018	0.012	0.0052	0.0017
VS 3485-86	25.07	5.03	10.59	11.70	17.76	0.61	1.13	0.27	1.82	0.50	0.05	0.035	0.00025	0.0011	0.0028	0.026	0.0009
VS 3486-86	70.54	11.29	5.24	0.48	0.52	1.67	2.21	0.62	0.28	0.11	0.43	0.039	0.00036	0.0009	0.0076	0.025	0.0016
	La	Li	Nb	Ni	Pb	Rb	Sc	Sn	Sr	V	Y	Yb	Zn	Zr	Ag	As	Cd
	0.00322	0.010	0.0012	0.0033	0.0016	0.009	0.0009	0.00037	0.030	0.009	0.0023	0.00025	0.005	0.014	(0.00005)	(0.004)	(0.0002)
	0.0034	0.0012	0.0060	0.0058	0.0016	0.010	0.0015	0.00044	0.020	0.014	0.0030	0.00032	0.009	(0.018)	(0.00007)	(0.004)	(0.00019)
	0.026	0.0020	(0.0007)	0.0019	(0.020)	0.004	0.0009	0.0004	0.018	0.007	0.004	0.00033	0.014	0.007	0.00026	(0.009)	(0.00035)
	0.0032	0.015	0.0017	0.0025	0.011	0.019	0.0008	0.04	0.020	0.006	0.0016	0.000224	0.039	0.021	(0.0034)	(0.7)	0.0009
	B	Mo	Fe <sub>2</sub> O <sub>3</sub>	FeO	LOI	Au	100 g										
	(0.009)	(0.0003)	(2.8)	(1.3)	(20.33)	(0.000004)	<b>Sedimentgestein; Rock Sediments</b>										
	(0.008)	(0.0003)	(3.5)	(2.2)	(17.17)	(0.0000025)											
	(0.0014)	0.0029	(0.2)	(0.24)	(25.14)	0.00013											
	(0.016)	(0.0003)	(3.5)	(1.3)	(5.44)	(0.000011)											
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	B	P <sub>2</sub> O <sub>5</sub>	MnO	Ce	Eu	Ba	Be	Co
VS 6103-91	60.45	16.56	5.55	3.79	3.05	4.84	3.57	2.98	0.86	0.0046	0.17	0.086	0.0046	0.00013	0.072	0.00024	0.0017
VS 6104-91	57.86	16.68	5.41	2.51	1.25	6.94	4.51	4.77	0.78	(0.0007)	0.39	0.14	0.0219	0.00045	0.69	0.00019	0.0008
	Cr	Cs	Cu	F	Ga	Lu	Li	Nb	Nd	Ni	Pb	Rb	Sc	Sr	V	Zn	Zr
	0.0058	0.00029	0.0039	0.071	0.0018	0.00003	0.0030	0.0012	0.0024	0.0033	0.0024	0.0083	0.0015	0.041	0.0096	0.0071	0.0173
	0.0016	(0.0001)	0.0005	0.082	0.0017	0.000033	0.00105	0.0020	0.0102	0.00084	0.0021	0.0056	0.00040	0.52	0.0079	0.0109	0.0185
	La	Sm	Sn	Th	Yb	Y	Ag	As	Tb	Mo	Cl	Ge	H <sub>2</sub> O+	H <sub>2</sub> O-	S	Dy	Ho
	0.0027	0.00048	0.00043	0.00068	0.00021	0.0021	(0.0000075)	0.0006	(0.000087)	(0.00008)	(0.011)	(0.00014)	(1.6)	(0.14)	(0.013)	(0.0004)	(0.00006)
	0.0108	0.0016	(0.00019)	(0.0012)	0.00023	0.0025	(0.000003)	(0.0012)	(0.00017)	0.00011	-	(0.00012)	(0.28)	(0.05)	(0.017)	(0.00069)	(0.0001)
	Ta	U	CO <sub>2</sub> (carb)	Er	Gd	Pr	Tm	Hf	Sb	LOI	100 g						
	(0.00008)	(0.0002)	(0.18)	(0.0002)	(0.00039)	(0.00047)	(0.00003)	(0.0005)	(0.00008)	1.59	<b>Diorit; Diorite</b>						
	(0.00018)	(0.0002)	(0.20)	(0.00025)	(0.0010)	(0.0023)	(0.000045)	0.0005	-	(0.38)	<b>Svatonssit; Svatonssite</b>						
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	MnO	Co	Cr	Cu	Ge	Li	Ni	Sc	Sr
VS 4233-88	39.58	0.97	8.91	41.86	1.52	0.035	0.010	0.018	0.13	6.31	0.41	0.0033	0.00011	0.00020	0.22	0.0009	0.0018
	V	Zn	FeO	P <sub>2</sub> O <sub>5</sub>	S	H <sub>2</sub> O-	H <sub>2</sub> O+	CO <sub>2</sub>	100 g								
	0.0033	0.0030	(5.54)	(0.01)	(0.041)	(0.4)	(4.82)	(1.61)	<b>Dunit; Dunite</b>								
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	CaO	ppm Co	ppm Cr	ppm Mn	ppm Ni	ppm V	ppm Zn	30 g					
UG DTS-2	39.4	0.45	7.76	49.4	0.12	120	15500	830	3780	22	45	<b>Dunit; Dunite, Twin Sister Mountains</b>					

6.11.6

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	H <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	CO <sub>2</sub>	S	Ba	Co	Cr	Cu
VS 2111-81	45.54	1.84	11.58	8.83	37.12	1.26	0.105	0.044	-	0.107	-	0.183	0.69	0.030	0.0066	0.0159	0.320	0.0140
VS 2112-81	35.07	-	10.06	-	42.40	-	-	-	11.35	-	-	0.176	0.46	-	-	0.0129	-	0.0027
VS 2113-81	37.95	14.24	18.26	9.72	12.70	11.04	2.14	0.382	-	1.91	-	0.144	-	0.054	0.0099	0.0074	0.0015	0.074
VS 2114-81	37.66	2.66	7.57	2.24	26.96	6.47	0.087	0.412	-	0.97	0.216	0.111	5.71	0.032	0.025	0.0073	0.068	0.0035
VS 2115-81	57.98	13.95	11.57	8.50	3.18	6.35	3.01	2.04	0.11	1.24	0.194	0.142	0.24	0.086	0.069	0.0034	0.0021	0.0059
	F	Ga	Ge	Li	Nb	Mo	Ni	Pb	Sc	Sn	Sr	V	Y	Yb	Zn	Zr	40 g Fe <sub>2</sub> O <sub>3</sub> =Fe(tot)	
-	0.00059	0.00016	-	-	-	0.00013	0.160	0.00067	0.00113	0.00032	-	0.0039	-	0.00015	0.0137	0.0021	Peridotit (e)	
-	-	-	-	-	-	0.00014	0.133	-	-	0.00022	-	0.00069	-	-	0.0082	-	Dunit (e)	
-	0.0025	-	-	-	-	0.00013	0.0057	0.00049	0.0058	0.00029	-	0.0039	-	0.00015	0.0137	0.0021	Hornblende (dite)	
-	0.00068	-	-	0.0038	0.00013	0.106	0.00062	0.00019	0.00025	0.028	0.0047	0.00091	-	0.0063	0.0083	-	Kimberlit (e)	
0.046	0.0023	0.00017	0.00066	0.00084	0.00027	0.0020	0.0020	0.0022	0.0033	0.00059	0.033	0.020	0.0027	0.00028	0.0104	0.018	Diabas (e)	
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	Ba	Be	Co	Cr	Cu	Ga	
VS 2116-81	49.15	16.53	11.07	7.71	6.56	8.87	3.74	0.98	1.65	0.40	0.164	0.0300	0.00023	0.0037	0.0099	0.0061	0.0022	
VS 2117-81	37.62	13.67	18.54	9.05	8.66	15.75	0.72	0.204	1.46	2.15	0.222	0.0110	(0.0001)	0.0065	0.0014	0.3600	0.0021	
VS 2118-81	52.04	16.94	9.93	5.43	3.74	7.36	4.20	2.25	1.02	0.476	0.187	0.1300	0.00029	0.0024	0.0021	0.0100	0.0024	
VS 2119-81	37.66	13.35	20.98	14.98	7.48	7.81	2.35	0.80	6.99	2.21	0.198	0.0440	0.000082	0.0069	0.0056	0.0069	0.0013	
VS 2120-81	51.77	22.78	6.26	4.66	2.10	10.06	4.04	0.76	1.87	0.140	0.076	0.051	0.00009	0.0023	0.0036	0.0031	0.0017	
VS 2121-81	58.00	21.72	3.04	1.47	0.35	1.10	8.50	6.12	0.400	0.050	0.128	0.016	0.00045	0.00049	0.00117	0.0051	0.0041	
VS 2122-81	56.29	21.96	0.03	0.88	-	1.20	10.79	4.30	0.045	-	0.085	0.017	0.0086	-	0.00098	0.0021	0.0080	
VS 2123-81	42.80	26.47	4.23	1.40	1.14	3.73	13.33	5.16	1.79	0.388	0.084	0.035	0.00051	0.00081	0.00097	0.0024	0.0048	
VS 2124-81	56.13	16.96	6.79	1.14	0.74	1.25	9.26	6.23	0.92	-	0.254	0.080	0.00139	0.00063	0.00125	0.00111	0.0063	
VS 2125-81	64.08	15.35	5.23	2.87	1.87	3.93	3.25	3.98	0.517	0.228	0.160	0.14	0.00037	0.0013	0.0037	0.0057	0.0022	
	Ge	La	Li	Mo	Nb	Ni	Pb	Rb	Sc	Sn	Sr	V	Y	Yb	Zn	Zr	CO <sub>2</sub>	
0.00011	0.00040	0.00093	0.00018	-	0.0086	0.0012	0.0014	0.0014	0.0022	0.00070	0.0500	0.0150	0.0029	0.00026	0.0082	0.0190	(0.13)	
0.00021	-	0.00033	0.00020	-	0.0028	0.0006	(0.00045)	0.0037	0.00065	0.1040	0.0960	(0.0016)	0.00026	0.0136	(0.0050)	(0.16)		
0.00011	0.0046	0.0013	0.00020	-	0.0014	0.0020	0.0042	0.0024	0.00055	0.0810	0.0220	0.0038	0.00028	0.0077	0.0160	0.37		
-	-	-	(0.00027)	(0.00095)	0.0063	0.0011	-	0.0017	0.00044	(0.0330)	0.0120	(0.0031)	(0.00027)	0.0120	0.0100	0.33		
-	-	-	-	-	0.0010	0.0007	-	0.0023	-	-	0.013	-	-	0.0083	0.0072	0.36		
0.00012	0.0074	0.00066	0.00011	0.015	0.00071	0.00120	0.0189	-	0.00079	0.0126	0.0030	0.0019	0.00019	0.0066	0.085	-		
0.00014	0.013	0.00043	0.00052	0.034	0.00065	0.0025	0.030	-	0.0015	0.012	0.0013	0.0064	0.00057	0.0069	0.0070	0.72		
-	0.0100	0.00089	0.00023	0.0097	0.00065	0.00058	0.0079	-	0.00034	0.100	0.0086	0.0026	0.00017	0.0044	0.022	-		
0.00013	0.040	0.0037	0.00028	0.034	0.00078	0.0020	0.0250	-	0.0014	0.080	0.0086	0.0081	0.00057	0.012	-	-		
0.00018	-	0.0020	0.000322	0.00088	0.0015	0.016	0.016	0.0013	0.00080	0.048	0.0090	-	-	0.012	0.021	0.14		
	B	F	H <sub>2</sub> O	S	40 g													
-	0.0480	1.34	(0.0090)	Basalt; Basalt														
-	0.0720	(0.12)	0.1240	Gabbro; Gabbro														
-	(0.0690)	1.67	(0.0070)	Gabbro; Gabbro														
-	0.1600	1.25	0.0820	Gabbro, Erz; Gabbro, Ore														
-	-	0.40	0.069	Anorthosit; Anorthosite														
-	-	0.40	-	Miaskit; Miaskite														
-	-	-	-	Maripolit; Maripolite														
-	-	-	-	Urtit; Urtite														
-	-	-	-	Lujavrit; Lujavrite														
0.0027	-	-	0.019	Granodiorit; Granodiorite														



CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	B	Ba	Be	Co	Cr	Cs
VS 3333-85	74.76	10.64	4.50	1.61	0.10	0.32	4.24	4.64	0.26	0.024	0.120	0.0011	0.009	0.0005	0.00013	0.00031	0.00045
	<b>Cu</b>	<b>F</b>	<b>Ga</b>	<b>Ge</b>	<b>Li</b>	<b>Mo</b>	<b>Nb</b>	<b>Ni</b>	<b>Pb</b>	<b>Rb</b>	<b>Sc</b>	<b>Sn</b>	<b>Sr</b>	<b>Ta</b>	<b>Th</b>	<b>U</b>	<b>V</b>
	0.0012	0.062	0.0027	0.00022	0.0052	0.00017	0.0017	0.0006	0.0010	0.014	0.00046	0.0005	0.0008	0.00011	0.0008	0.00018	0.0006
	<b>Zn</b>	<b>Zr</b>	<b>La</b>	<b>Ce</b>	<b>Hf</b>	<b>Nd</b>	<b>Sm</b>	<b>Eu</b>	<b>Tb</b>	<b>Yb</b>	<b>Lu</b>	<b>Y</b>	<b>Ag</b>	<b>As</b>	<b>CO<sub>2</sub></b>	<b>H<sub>2</sub>O+</b>	<b>S</b>
	0.014	0.047	0.0045	0.009	0.0012	0.005	0.0010	0.00004	0.00004	0.0007	0.00009	0.006	(0.000006)	(0.0004)	(0.1)	(0.30)	(0.016)
	<b>Sb</b>	<b>W</b>	<b>Dy</b>	<b>Er</b>	<b>100 g</b>												
	(0.00005)	(0.00011)	(0.001)	(0.0006)	<b>Granit; Granite</b>												
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	MnO	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	Cr <sub>2</sub> O <sub>3</sub>	NiO	ZrO <sub>2</sub>	BaO	SrO	Nb <sub>2</sub> O <sub>5</sub>
X 1NIMG	75.70	12.08	(0.6)	1.30	(0.06)	0.78	3.36	4.99	-	-	-	-	-	-	-	-	-
X 2NIMS	63.63	17.34	1.11	0.30	0.46	0.68	0.43	15.35	-	-	0.12	-	-	-	0.27	-	-
X 3NIML	52.40	13.64	8.78	1.13	0.28	3.22	8.37	5.51	0.77	0.48	-	-	-	1.49	-	0.54	0.14
X 4NIMN	52.64	16.50	(0.8)	7.47	7.50	11.50	2.46	0.25	0.18	0.20	-	-	-	-	-	-	-
X 5NIMP	51.10	4.18	0.87	10.59	25.33	2.66	0.37	0.09	0.22	0.20	-	3.50	-	-	-	-	-
X 6NIMD	38.96	(0.3)	0.71	14.63	43.51	0.28	(0.04)	(0.01)	0.22	-	-	0.42	0.26	-	-	-	-
	<b>Cl</b>	<b>F</b>	<b>H<sub>2</sub>O</b>	<b>CO<sub>2</sub></b>	<b>Ba</b>	<b>Ce</b>	<b>Co</b>	<b>Cr</b>	<b>Cu</b>	<b>Dy</b>	<b>Eu</b>	<b>Ga</b>	<b>Gd</b>	<b>La</b>	<b>Li</b>	<b>Lu</b>	<b>Mn</b>
	-	0.42	0.49	(0.10)	(0.0120)	0.0195	-	0.0012	0.0012	(0.0017)	0.000035	0.0027	(0.0014)	0.0109	(0.0012)	(0.0002)	0.0160
	-	-	0.22	0.09	0.2400	0.00119	(0.0003)	0.0012	0.0019	(0.00004)	0.000030	0.0011	-	(0.0005)	-	-	0.0080
	0.12	0.44	2.31	0.17	0.0450	(0.0240)	-	(0.0010)	0.0013	-	0.00012	(0.0054)	-	(0.0250)	(0.0048)	(0.00004)	0.6000
	-	-	0.33	(0.10)	0.0102	(0.0006)	0.0058	(0.0030)	0.0014	-	0.000063	0.0016	-	(0.0003)	-	(0.00002)	0.1400
	-	-	0.26	(0.08)	0.0046	-	0.0110	2.4000	0.0018	-	(0.00002)	(0.0008)	-	(0.0002)	-	-	0.1700
	-	-	0.30	0.40	(0.0010)	-	0.0208	0.2900	0.0010	-	-	-	-	(0.00002)	-	-	0.1700
	<b>Nb</b>	<b>Nd</b>	<b>Ni</b>	<b>P</b>	<b>Pb</b>	<b>Rb</b>	<b>S</b>	<b>Sm</b>	<b>Sr</b>	<b>Tb</b>	<b>Th</b>	<b>Ti</b>	<b>Tm</b>	<b>U</b>	<b>V</b>	<b>Y</b>	
	0.0053	0.0072	(0.0008)	-	0.0040	0.0325	-	0.00158	0.0010	0.00030	0.0051	0.0540	(0.0002)	(0.0015)	(0.0002)	0.0143	
	-	(0.0006)	(0.0007)	0.0520	(0.0005)	0.0530	-	(0.0001)	0.0062	-	0.00010	0.0265	-	-	0.0010	-	
	0.0960	0.0048	-	0.0260	0.0043	0.0190	(0.0650)	(0.0005)	0.4600	(0.00007)	0.0066	0.2900	-	0.0014	0.0081	0.0022	
	-	(0.0003)	0.0120	(0.0130)	-	-	-	(0.00008)	0.0260	-	-	0.1200	-	-	0.0220	(0.0007)	
	-	-	0.0555	0.0090	-	-	-	-	0.0032	-	-	0.1200	-	-	0.0230	(0.0005)	
	-	-	0.2040	(0.0040)	-	-	-	-	(0.0003)	-	-	0.0120	-	-	0.0040	-	
	<b>Yb</b>	<b>Zn</b>	<b>Zr</b>	<b>100 g</b>													
	0.00142	0.0050	0.0300	<b>Granit; Granite</b>													
	(0.000007)	(0.0010)	(0.0033)	<b>Syenit; Syenite</b>													
	(0.0003)	0.0395	1.1000	<b>Lujaurit; Lujaurite</b>													
	(0.00007)	0.0068	(0.0023)	<b>Norit; Norite</b>													
	(0.00006)	0.0100	-	<b>Pyroxenit; Pyroxenite</b>													
	-	0.0090	-	<b>Dunit; Dunite</b>													
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	TiO <sub>2</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	MnO	H <sub>2</sub> O+	S	CO <sub>2</sub>	LOI	50 g	
GB 03124	60.64	20.05	1.37	0.28	0.12	0.52	0.13	5.06	8.97	0.020	0.050	2.34	(0.011)	-	2.37	<b>Nephelin Syenit</b>	
GB 03125	39.42	29.67	0.33	1.24	0.14	5.98	0.92	4.72	12.59	0.072	0.031	1.78	(0.064)	2.97	-	<b>Nepheline Syenite</b>	

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	CO <sub>2</sub>	Fe	Fe <sub>2</sub> O <sub>3</sub>	FeO	K <sub>2</sub> O	MgO	MnO	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	TiO <sub>2</sub>	ppm Ba	ppm Be	ppm Ce	ppm Co	ppm Cr	
T SY4	49.9	20.69	8.05	3.5	4.2	6.21	2.86	1.66	0.54	0.108	7.10	0.131	0.287	340	2.6	122	2.8	12	
	ppm Cs	ppm Cu	ppm Dy	ppm Er	ppm Eu	ppm Ga	ppm Gd	ppm Hf	ppm Ho	ppm La	ppm Li	ppm Lu	ppm Mn	ppm Nb	ppm Nd	ppm Ni	ppm Pb	ppm Pr	
	1.5	7	18.2	14.2	2.0	35	14.0	10.6	4.3	58	37	2.1	819	13	57	9	10	15.0	
	ppm Rb	ppm Sc	ppm Sm	ppm Sr	ppm Ta	ppm Tb	ppm Th	ppm Tm	ppm U	ppm V	ppm Y	ppm Yb	ppm Zn	ppm Zr	LOI	100 g			
	55	1.1	12.7	1191	0.9	2.6	1.4	2.3	0.8	8	119	14.8	93	517	4.56	Diorit(e) Gneiss			
RM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub> (t)	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	ppm Ba	ppm Ce	ppm Cr	ppm Cs	ppm Cu	ppm Dy	ppm Er	ppm Eu	ppm Ga	ppm Gd	
JG Sy-1	60.02	23.17	0.084	0.0024	0.016	0.25	10.74	4.82	15.7	2.6	2.0	0.69	1.3	0.37	0.30	0.16	23.5	0.27	
	ppm Hf	ppm Ho	ppm La	ppm Lu	ppm Nb	ppm Nd	ppm Ni	ppm Pb	ppm Pr	ppm Rb	ppm Sb	ppm Sm	ppm Sn	ppm Sr	ppm Th	ppm Tm	ppm U	ppm V	
	1.2	0.094	1.2	0.076	0.51	1.2	1.1	4.9	0.32	66.3	0.15	0.27	0.17	19.3	0.23	0.053	0.20	2.1	
	ppm Y	ppm Yb	ppm Zn	ppm Zr	100 g				Syenit; Syenite										
	2.6	0.41	3.2	70.2															
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	TiO <sub>2</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	MnO	H <sub>2</sub> O+	S	LOI	Ba	Be	Cr	Cu	
VS 1345-78	53.57	20.92	4.79	1.27	0.86	1.47	0.50	5.91	9.96	0.140	0.21	1.06	0.017	1.15	0.13	0.00096	0.0012	0.0073	
	F	Ga	La	Li	Nb	Rb	Sn	Sr	Y	V	Zn	Zr	Th	Ta	100 g				
	0.20	0.0030	0.022	0.0031	0.023	0.017	0.00077	0.19	0.0049	0.0046	0.014	0.06	0.0035	0.0011	Nephelin Syenit; Nepheline Syenite				
RM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	BaO	Mn <sub>2</sub> O <sub>3</sub>	SrO	LOI	100 g					
5 201a	57.3	0.05	23.54	0.12	1.07	0.025	8.90	7.53	0.025	0.37	0.007	0.43	0.76	Syenit; Syenite					
CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub> (tot)	FeO	Fe <sub>2</sub> O <sub>3</sub>	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	H <sub>2</sub> O-	ppm Ag	ppm As	ppm B	ppm Ba	ppm Co	
2 TH	63.34	0.54	15.68	4.68	0.99	3.52	0.066	0.86	0.41	0.60	11.23	0.13	0.65	1.1	31	27	674	9	
	ppm Cr	ppm Cu	ppm Ga	ppm La	ppm Ni	ppm Pb	ppm Sr	ppm V	ppm W	ppm Zn	ppm Zr	100 g							
	61	15	14	34	14	16	85	96	48	85	137	Metasomatit; Metasomatite							

CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	MgO	CaO	Na <sub>2</sub> O	H <sub>2</sub> O	CO <sub>2</sub>	F	Cr	Ni	B	Ba	Co	Cu	
Z SW	39.04	0.016	0.66	7.40	2.00	0.084	38.5	0.18	0.013	13.6	0.28	0.0066	0.24	0.22	37ppm	19ppm	102ppm	7ppm	
	V	Zn	K <sub>2</sub> O	Li <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	As	Cs	Ga	Nd	Pb	Rb	S	Sc	Sn	U	W	50 g		
	20ppm	58ppm	(14ppm)	(3ppm)	(17ppm)	(5ppm)	(5ppm)	(4ppm)	(4ppm)	(6ppm)	(5ppm)	(3ppm)	(5ppm)	(5ppm)	(5ppm)	(5ppm)	Serpentinit		
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	Fe <sub>2</sub> O <sub>3</sub> (t)	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	MnO	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	ppm Ba	ppm Be	ppm Ce	ppm Co	ppm Cr	ppm Cs	ppm Cu
UG COQ-1	3.47	0.37	-	-	2.94	1.25	48.3	0.04	0.16	0.43	0.15	2.6	1000	1.2	1700	<5	<10	0.2	<10
UG DNC-1	47.15	18.34	1.79	7.34	9.97	10.13	11.49	1.89	0.234	0.15	0.48	0.07	118	-	-	57	270	-	100
	ppm Dy	ppm Er	ppm Eu	ppm Ga	ppm Gd	ppm Ho	ppm La	ppm Li	ppm Nb	ppm Nd	ppm Ni	ppm Pr	ppm Sb	ppm Sc	ppm Sm	ppm Sr	ppm Tb	ppm Th	ppm U
	18	7	15	6	50	3	750	-	3900	480	13	150	-	3	56	12000	4	10	11
	-	-	0.59	-	-	-	3.6	5.2	-	5.2	247	-	0.96	3.1	-	144	-	-	-
	ppm V	ppm Y	ppm Yb	ppm Zn	ppm Zr	30 g													
	110	81	6	87	65	Carbonatit; Carbonatite													
	148	18	2	70	38	Dolerit; Dolerite													
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	MnO	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	Cr <sub>2</sub> O <sub>5</sub>	Ba	Ce	Co	Cr	Cu	Ga	
X 39	33.44	4.29	9.29	(4.0)	26.24	9.69	(0.5)	1.04	0.17	1.58	1.46	0.19	0.17	(0.0085)	0.0077	-	0.0058	(0.0010)	
X 40	3.08	0.41	2.75	(0.4)	1.97	49.77	(0.05)	(0.03)	0.18	0.05	2.05	-	(0.0310)	(0.0160)	(0.0020)	(0.0035)	(0.0010)	(0.0010)	
X 48	67.11	11.24	0.58	(0.2)	0.18	8.90	3.22	4.26	0.02	0.10	(0.09)	-	(0.0290)	(0.0850)	-	0.0023	(0.0010)	-	
X 50	51.56	15.28	11.0	8.49	7.57	10.80	2.30	0.61	0.17	0.86	0.15	-	0.0220	(0.0030)	0.0040	0.0357	0.0084	-	
	Mo	Nb	Ni	Pb	Rb	S	Sr	Th	V	Y	Zn	Zr	100 g						
	(0.0005)	0.0110	0.0994	(0.0025)	0.0052	(0.15)	0.14	(0.0010)	0.0109	0.0017	0.0070	0.0239	Kimberlit; Kimberlite						
	(0.0010)	(0.0010)	(0.0025)	(0.0020)	(0.0010)	(0.05)	0.16	(0.0012)	0.0027	0.0033	0.0025	0.0087	Karbonatit; Carbonatite						
	(0.0005)	0.0202	-	0.0135	0.0291	-	0.0029	0.0113	(0.0008)	0.0436	0.0053	0.0300	Granit; Granite						
	-	(0.0010)	(0.0085)	(0.0025)	0.0014	(0.03)	0.0195	(0.0006)	0.0216	0.0023	0.0081	0.0086	Dolerit; Dolerite						
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	CaO	Cr	Cu	FeO	Fe <sub>2</sub> O <sub>3</sub>	Pb	MgO	MnO	Ni	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Rb	Sr	Th		
3 278	73.05	14.15	4.84	0.983	-	5.9ppm	1.36	2.04	16.4ppm	(0.23)	0.052	3.6ppm	0.036	4.16	127.5ppm	63.5ppm	12.4ppm		
3 688	48.4	17.36	2.15	(12.17)	332ppm	-	7.64	10.35	3.3ppm	(8.4)	0.167	-	0.134	0.187	1.91ppm	169.2ppm	0.33ppm		
	TiO <sub>2</sub>	Tl	U																
	0.245	0.54ppm	4.58ppm	35 g	Obsidian														
	1.17	-	-	60 g	Basalt														
CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	H <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	CO <sub>2</sub>	F	As	Ba	Be	Ce	
Z BM	49.51	1.14	16.25	9.67	7.28	0.140	7.47	6.47	4.65	0.20	3.62	0.106	1.35	0.028	13ppm	250ppm	1.3ppm	22ppm	
	Co	Cr	Cs	Cu	Eu	Ga	Hf	La	Li	Lu	Nd	Ni	Pb	Rb	Sb	Sc	Sm	Sn	
	36ppm	121ppm	2.0ppm	43ppm	1.12ppm	16ppm	3.0ppm	9ppm	72ppm	0.41ppm	15ppm	57ppm	13ppm	10ppm	2.3ppm	34ppm	3.6ppm	2.0ppm	
	Sr	Tb	V	W	Y	Yb	Zn	Zr	50 g										
	220ppm	0.9ppm	190ppm	0.9ppm	27ppm	3.0ppm	120ppm	100ppm	Basalt	B, Mo, Ta, Th, Ag, Dy, Er, Gd, Ge, Hg, Ho, Pr + U informative Werte/informative values									

6.11.10

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	Fe <sub>2</sub> O <sub>3</sub> (t)	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	ppm Ag	ppm As	ppm B	ppm Ba	ppm Be	ppm Br
UG BHVO-2	49.9	13.5	-	-	12.3	-	7.23	11.4	2.22	0.52	2.73	0.27	-	-	-	130	-	-
UG BIR-1	47.96	15.5	2.06	8.34	11.3	0.175	9.70	13.3	1.82	0.030	0.96	0.021	-	(0.44)	(0.33)	(7)	(0.58)	-
UG BCR-2	54.1	13.5	-	-	13.8	-	3.59	7.12	3.16	1.79	2.26	0.35	-	-	-	683	-	-
UG W-2	52.68	15.45	1.53	8.34	10.83	0.167	6.37	10.86	2.20	0.626	1.06	0.14	-	(1.2)	(12)	170	(1.3)	-
UG AGV-2	59.3	16.91	-	-	6.69	-	1.79	5.20	4.19	2.88	1.05	0.48	-	-	-	1140	2.3	-
UG RGM-1	73.4	13.7	0.50	1.27	1.86	0.036	0.28	1.15	4.07	4.30	0.27	-	0.11	3.0	28	810	2.4	1.3
UG QLO-1	65.6	16.2	1.02	2.97	4.35	-	1.00	3.17	4.20	3.60	0.62	0.25	0.064	(3.5)	36	1370	-	(2.1)
	ppm Ce	ppm Cl	ppm Co	ppm Cr	ppm Cs	ppm Cu	ppm Dy	ppm Er	ppm Eu	ppm F	ppm Ga	ppm Gd	ppm Hf	ppm Li	ppm La	ppm Lu	ppm Mn	ppm Mo
	38	-	45	280	-	127	-	-	-	-	21.7	-	4.1	-	15	-	1290	-
	1.9	(26)	52	370	-	125	4	-	0.55	(44)	(16)	1.8	0.6	3.6	0.63	(0.26)	-	-
	53	-	37	18	-	-	-	-	2.0	-	23	6.8	-	-	25	-	1520	248
	23	(190)	43	92	(0.99)	110	3.6	(2.5)	1.0	(205)	17	-	2.6	9.6	10	(0.33)	-	-
	68	-	16	17	-	53	3.6	-	-	-	20	-	-	-	38	-	770	-
	47	510	2.0	(3.7)	9.6	12	4.1	-	0.66	340	15	3.7	-	57	24	0.4	280	2.3
	54	220	7.2	3.2	1.8	29	3.8	2.3	1.43	280	-	-	-	25	27	0.37	-	2.6
	ppm Nb	ppm Nd	ppm Ni	ppm Pb	ppm Pr	ppm Rb	ppm Sb	ppm Sc	ppm Sm	ppm Sn	ppm Sr	ppm Ta	ppm Tb	ppm Th	ppm Tm	ppm U	ppm V	ppm W
	-	25.0	119	-	-	9.8	-	32	-	-	389	-	-	-	-	-	-	-
	(0.6)	2.5	170	(3)	-	-	(0.58)	44	(1.1)	-	110	-	-	-	-	-	310	-
	-	28	-	-	-	48	-	33	-	-	346	-	-	6.2	-	1.69	416	-
	(7.9)	13	70	(9.3)	-	21	(0.79)	36	3.3	-	190	(0.5)	(0.63)	2.4	(0.38)	(0.53)	260	-
	15	30	19	13	8.3	68.6	-	13	-	-	658	-	-	6.1	-	1.88	120	-
	8.9	19	-	24	-	150	1.3	4.4	4.3	4.1	110	0.95	-	15	-	5.8	13	1.5
	10	(26)	-	20	-	74	-	-	4.9	2.3	340	0.82	0.71	4.5	0.37	1.9	54	0.58
	ppm Y	ppm Yb	ppm Zn	ppm Zr	30 g													
	26	-	103	172	Basalt/Hawaiian Volcanic Observatory													
	16	1.7	70	18	Basalt/Island													
	37	3.5	127	188	Basalt/Columbia River													
	23	2.1	80	100	Diabas (e)													
	20	1.6	86	230	Andesit(e)/Guano Valley, Columbia													
	(25)	2.6	(32)	220	Rhyolit(e)/Glass Mountain													
	24	2.3	61	185	Quarz Latit; Quartz Latite													
CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	H <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	CO <sub>2</sub>	F	As	B	Ba	Ce
Z GM	73.42	0.212	13.55	2.01	1.13	0.043	0.37	1.07	3.78	4.76	0.35	0.062	0.28	0.067	4.1ppm	11ppm	340ppm	65ppm
	Co	Cr	Cs	Cu	Eu	Ga	Hf	La	Li	Lu	Mo	Nb	Nd	Ni	Pb	Rb	Sc	Sm
	3.7ppm	11ppm	8.1ppm	13ppm	0.6ppm	15ppm	5.1ppm	41ppm	50ppm	0.4ppm	1.1ppm	18ppm	30ppm	6.8ppm	30ppm	260ppm	4.8ppm	4.9ppm
	Sn	Sr	Ta	Tb	Th	U	V	W	Y	Yb	Zn	Zr	50 g					
	4.4ppm	133ppm	1.7ppm	0.7ppm	36ppm	6.4ppm	11ppm	1.6ppm	26ppm	3.1ppm	34ppm	149ppm	Granit (e)					



CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	Fe <sub>2</sub> O <sub>3</sub> (t)	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	H <sub>2</sub> O+	H <sub>2</sub> O-	Al	Ca	ppm Ag	ppm As
JG JG-1	72.30	24.24	0.38	1.61	2.18	0.063	0.74	2.20	3.38	3.98	0.26	0.0099	0.54	0.07	7.54	1.57	0.043	0.034
JG JG-1a	72.30	14.30	0.51	1.36	2.00	0.057	0.69	2.13	3.39	3.96	0.25	0.083	0.59	0.12	7.57	1.52	(0.023)	(0.43)
JG JG-2	76.83	12.47	0.33	0.57	0.97	0.016	0.037	0.70	3.54	4.71	0.044	0.002	0.33	0.12	6.60	0.50	(0.019)	(0.68)
JB JG-3	67.29	15.48	1.62	1.83	3.69	0.071	1.79	3.69	3.96	2.64	0.48	0.122	0.67	0.17	8.19	2.64	(0.029)	(0.37)
JG JGb-1	43.66	17.49	4.79	9.43	15.06	0.189	7.85	11.90	1.20	0.24	1.60	0.056	1.28	0.13	9.26	8.50	(0.024)	1.09
JG JGb-2	46.47	23.48	0.62	5.41	6.69	0.13	6.18	14.10	0.92	0.059	0.56	0.017	1.46	0.14	-	-	-	(0.96)
JG JP-1	42.38	0.66	1.98	5.99	8.37	0.121	44.40	0.55	0.021	0.003	(0.006)	(0.002)	2.39	0.44	0.35	0.39	(1.5)	0.34
JG JR-1	75.45	12.83	0.35	0.49	0.89	0.099	0.12	0.67	4.02	4.41	0.11	0.021	1.16	0.20	6.79	0.48	(0.031)	16.3
JG JR-2	75.69	12.72	0.27	0.44	0.77	0.112	0.04	0.50	3.99	4.45	0.07	0.012	1.19	0.22	6.73	0.36	(0.028)	19.2
JG JR-3	72.76	11.90	2.61	1.86	4.72	0.083	0.050	0.093	4.69	4.29	0.21	0.017	(0.72)	(0.24)	-	-	(0.036)	(1.1)
JG JH-1	48.18	5.66	1.39	(8.09)	10.27	0.19	16.73	15.02	0.71	0.53	0.67	0.099	(1.82)	(0.18)	-	-	-	(1.0)
	ppm B	ppm Ba	ppm Be	ppm Bi	ppm Cd	ppm Ce	ppm Cl	ppm Co	ppm Cr	ppm Cs	ppm Cu	ppm Dy	ppm Er	ppm Eu	ppm F	ppm Ga	ppm Gd	ppm Ge
	6.87	466	3.15	0.50	0.040	45.8	58.1	4.06	53.2	10.1	2.52	4.14	2.16	0.73	498	17.8	4.28	1.44
	3.95	470	3.16	(0.43)	(0.026)	45	(65)	5.90	17.6	10.6	1.67	4.44	2.57	0.70	439	16.5	4.08	(1.5)
	(1.78)	81.0	3.26	(0.64)	(0.004)	48.3	-	3.62	6.37	6.79	0.49	10.5	6.04	0.10	(972)	18.6	8.01	(1.70)
	(2.15)	466	(1.60)	(0.05)	(0.054)	40.3	(156)	11.7	22.4	1.78	6.81	2.59	1.52	0.90	(317)	17.1	2.92	(1.6)
	4.03	64.3	(0.34)	(0.014)	0.087	8.17	(81)	60.1	57.8	0.26	85.7	1.56	1.04	0.62	133	17.9	1.61	1.01
	(4.9)	36.5	-	(0.022)	-	3.0	-	25.8	125	0.51	11.4	(0.60)	(0.36)	0.59	-	15.9	(0.48)	-
	(1.4)	19.5	(<0.1)	-	(0.011)	(0.19)	(97)	116	2807	(0.15)	6.72	(0.022)	(0.016)	(0.004)	(14)	(0.70)	(0.015)	(0.49)
	117	50.3	3.34	0.56	0.026	47.2	920	0.83	2.83	20.8	2.68	5.69	3.61	0.30	991	16.1	5.06	1.88
	145	39.5	3.75	0.62	0.023	38.8	(736)	0.46	3.10	25.0	1.36	6.63	4.36	0.14	1109	17.9	5.83	(1.88)
	(11.4)	65.8	7.6	(0.21)	(0.064)	327	-	0.98	3.5	1.0	2.9	(21.5)	(14.0)	0.53	-	(19.7)	-	-
	(10.8)	106	(0.43)	(0.067)	-	17.6	-	51.5	616	0.87	8.6	2.5	1.2	0.86	-	7.9	(2.7)	-
	ppm Hf	ppm Ho	ppm La	ppm Li	ppm Lu	ppm Mo	ppm Nb	ppm Nd	ppm Ni	ppm Pb	ppm Pr	ppm Rb	ppm S	ppm Sb	ppm Sc	ppm Se	ppm Sm	ppm Sn
	3.56	0.81	22.4	86.6	0.39	1.75	12.4	19.3	7.47	25.4	4.83	182	10.9	0.13	6.53	0.0030	4.62	3.60
	3.59	0.82	21.3	79.5	0.44	0.45	11.4	20.4	6.91	26.4	5.63	178	(11)	(0.048)	6.21	-	4.53	4.47
	4.73	1.67	19.9	42.2	1.22	0.37	14.7	26.4	(4.35)	31.5	6.20	301	(7.0)	(0.057)	2.42	-	7.78	3.00
	4.29	0.38	20.6	20.9	0.26	0.45	5.88	17.2	14.3	11.7	4.70	67.3	(54.7)	(0.08)	8.76	-	3.39	1.40
	0.88	0.33	3.60	4.59	0.15	0.59	3.34	5.47	25.4	1.92	1.13	6.87	1910	(0.085)	35.8	(0.15)	1.49	0.48
	0.25	(0.15)	1.5	(15.7)	0.062	0.42	1.9	1.8	13.6	1.5	(0.39)	2.9	(599)	(0.12)	24.7	-	0.51	(0.48)
	0.20	(0.018)	0.084	(1.79)	(0.0044)	(0.087)	1.48	(0.072)	2460	(0.12)	(0.020)	(0.80)	(26.9)	(0.034)	7.24	-	0.019	(0.05)
	4.51	1.11	19.7	61.4	0.71	3.25	15.2	23.3	(1.67)	19.3	5.58	257	13.3	1.19	5.07	(0.006)	6.03	2.86
	5.14	1.39	16.3	79.2	0.88	3.357	18.7	20.4	(1.99)	21.5	4.75	303	(9.6)	1.51	5.59	(0.0028)	5.63	3.51
	40.3	(4.7)	179	(120)	2.8	0.49	510	107	(1.6)	32.8	33.1	453	(39)	(0.17)	0.50	-	21.3	17.4
	1.4	0.53	7.9	(12.1)	0.17	0.77	4.2	11.6	58.2	2.6	(2.3)	14.4	(567)	0.067	77.6	-	3.1	(0.92)
	ppm Sr	ppm Ta	ppm Tb	ppm Th	ppm Tl	ppm Tm	ppm U	ppm V	ppm Y	ppm Yb	ppm Zn	ppm Zr	20 g					
	184	1.79	0.78	13.2	1.03	0.41	3.47	25.2	30.6	2.47	41.1	111	<b>Granodiorit (e)</b>					
	187	1.90	0.81	12.8	0.98	0.38	4.69	22.7	32.1	2.70	36.5	118	<b>Granodiorite (e)</b> 20 + 100 g					
	17.9	2.76	1.62	31.6	1.55	1.16	11.3	3.78	86.5	6.85	13.6	97.6	<b>Granit (e)</b>					
	379	0.70	0.46	8.28	(0.40)	0.24	2.21	70.1	17.3	1.77	46.5	144	<b>Granodiorit (e)</b> 100 g					
	327	0.18	0.29	0.48	(0.066)	0.16	0.13	635	10.4	1.06	109	32.8	<b>Gabbro</b>					
	438	0.29	0.15	0.19	-	(0.059)	(0.041)	174	4.5	0.39	48.5	11.6	<b>Gabbro</b> 100 g					
	(3.32)	(0.02)	(0.003)	0.19	(0.003)	(<0.041)	0.036	27.6	1.54	0.022	41.8	5.92	<b>Peridotit (e)</b>					
	29.1	1.86	1.01	26.7	1.56	0.67	8.88	7.0	45.1	4.55	30.6	99.9	<b>Rhyolit (e)</b>					
	8.11	2.29	1.10	31.4	1.85	0.75	10.9	3.00	51.1	5.33	27.8	96.3	<b>Rhyolit (e)</b>					
	10.4	36.8	4.29	112	(0.93)	-	21.1	4.2	166	20.3	209	1494	<b>Rhyolit (e)</b>					
	153	0.23	0.52	1.4	-	(0.19)	0.58	228	13.7	1.2	61.8	48.3	<b>Hornblende; Hornblendite</b> 100 g					

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO	TiO <sub>2</sub>	Cu	Ni	Co	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	H <sub>2</sub> O	CO <sub>2</sub>	S		
T UM2	39.2	7.23	12.95	0.24	0.095	0.29	0.012	0.08	25.45	4.68	0.32	0.11	0.02	6.27	0.1	0.94		
T UM4	39.35	8.98	12.8	0.35	0.054	0.19	0.007	0.15	22.5	6.27	0.45	0.18	0.02	4.86	0.26	0.44		
	Cr <sub>2</sub> O <sub>3</sub>	ZnO	100 g															
	1.51	0.004	Gesteine, ultramafic															
	2.59	0.008	Ultramafic Rocks															
CRM	ppm Pt	ppm Pd	ppm Au	ppm Ru	ppm Os	ppm Ir	ppm Rh	500 g										
GC GPt3	0.0063	0.0047	0.0011	0.015	0.0086	0.0046	0.0013	Gesteine, ultramafic, Pt-Elementgruppe										
GC GPt4	0.058	0.063	0.0043	0.0023	0.0021	0.0051	0.0046	Ultramafic Rocks, Pt-Group Elements										
GC GPt6	0.455	0.605	(0.045)	0.013	0.015	(0.033)	(0.022)											
CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	H <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	CO <sub>2</sub>	F	As	B	Ba	Be	Ce
Z TB	60.23	0.93	20.64	6.90	5.43	0.052	1.93	1.32	3.87	3.78	0.097	0.14	0.074	0.00105	0.0090	0.0780	0.00041	0.0104
Z TB2	60.04	0.93	20.5	6.95	5.4	0.047	1.86	1.29	3.86	3.6	0.006	(0.10)	-	-	-	0.0649	-	-
	Co	Cr	Cs	Cu	Eu	Ga	Hf	La	Li	Lu	Nd	Ni	Pb	Rb	Sb	Sc	Sm	Sn
	0.0014	0.0082	0.0009	0.0049	0.00018	0.0025	0.00050	0.0061	0.0111	0.000045	0.0050	0.0040	0.0008	0.0180	0.00034	0.0016	0.00084	0.0006
	0.0014	0.0092	0.0011	0.0049	0.0012	-	-	-	0.0109	-	-	0.0039	(0.0007)	0.0185	-	-	-	0.0005
	Sr	Ta	Th	V	W	Y	Yb	Zn	Zr									
	0.0160	0.00014	0.0018	0.0107	0.00022	0.0039	0.00033	0.0094	0.0180	25 g	Tonschiefer							
	0.0159	0.0010	-	0.0096	-	-	0.00038	0.0094	0.0180	50 g	Argillaceous Slate							
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	TiO <sub>2</sub>	SO <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	CO <sub>2</sub>	H <sub>2</sub> O	Cl	LOI	60 g	
GB 03104	69.63	14.82	5.67	(0.40)	0.22	0.67	3.76	0.20	0.68	0.028	0.043	0.024	0.13	(3.71)	0.014	4.17	Schiefer; Shale	
CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	S	100 g							
VB 8-3-05	37.0	0.75	12.91	5.29	0.037	2.28	16.44	0.57	3.05	2.22	Schiefer; Slate							
CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	MgO	CaO	SrO	BaO	Zn	Na <sub>2</sub> O	K <sub>2</sub> O	CO <sub>2</sub>	S	ppm Cd	ppm Co	ppm Cr	ppm Cu
UN MI	62.19	0.71	14.54	6.41	0.25	3.28	1.96	0.016	0.10	0.30	3.33	2.15	2.13	0.33	0.0100	0.0120	0.1073	0.0438
	ppm Ni	ppm Pb	ppm Rb	ppm V	ppm Y	ppm Zr	100 g											
	0.0372	0.0945	0.0539	0.1052	0.0198	0.1518	Chlorit-Muscovit Schiefer; Chlorite-Muscovite Schist											
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	B	Ba	Be	Co	Cr	Ce	
VS 3191-85	63.40	16.71	7.6	4.65	2.52	0.09	0.08	3.56	1.01	0.030	0.13	0.010	0.095	0.00035	0.0027	0.007	0.009	
	Cu	Nb	Ni	Pb	Rb	Sc	Sr	V	Zn	Zr	Y	Yb	100 g					
	0.0046	0.0016	0.0045	0.0015	0.015	0.0022	0.0039	0.010	0.010	0.023	0.0048	0.0005	Schiefer; Schist					

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	Fe <sub>2</sub> O <sub>3</sub> (t)	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	TiO <sub>2</sub>	S (t)	ppm As	ppm B	ppm Ba	ppm Be	ppm Ce	ppm Co
UG SGR-1	28.2	6.52	(1.46)	(1.41)	3.03	8.38	4.44	2.99	1.66	0.328	0.253	1.53	67	54	290	-	36	12
UG SCo-1	62.8	13.7	4.19	0.90	5.13	2.62	2.72	0.90	2.77	0.21	0.63	0.0630	12	72	570	1.8	62	11
UG SDC-1	65.8	15.8	2.62	3.93	6.32	1.40	1.69	2.05	3.28	0.16	1.01	-	0.22		630	3	93	18
	ppm Cr	ppm Cs	ppm Cu	ppm F	ppm Dy	ppm Er	ppm Eu	ppm Ga	ppm Gd	ppm Hf	ppm La	ppm Li	ppm Mn	ppm Mo	ppm Nb	ppm Nd	ppm Ni	ppm Pb
	30	5.2	66	1960	(1.9)	1.1	0.56	-	-	1.4	20	147	267	35	(5.2)	16	(29)	38
	68	7.8	29	770	-	-	-	(15)	-	-	30	45	410	1.4	(11)	26	27	31
	64	4	30	600	-	-	-	21	7	8.3	42	34	880	-	-	40	-	25
	ppm Pr	ppm Rb	ppm Sb	ppm Sc	ppm Sm	ppm Sn	ppm Sr	ppm Th	ppm U	ppm V	ppm Y	Yb	ppm W	ppm Zn	ppm Zr	30 g		
	-	-	3.4	4.6	2.7	(1.9)	420	4.8	5.4	130	(13)	(0.94)	2.6	74	(53)	<b>Green River Schiefer/Shale</b>		
	(6.6)	110	2.5	11	-	(3.7)	170	9.7	-	130	26	-	(1.4)	100	160	<b>Cody Schiefer/Shale</b>		
	-	127	0.54	17	8.2	3.0	180	12	3.1	102	-	-	103	290	-	<b>Mica Schiefer/Schist</b>		
CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	S	P <sub>2</sub> O <sub>5</sub>	C (org)	H <sub>2</sub> O	B	Co	Cr	Cs
Z TS	62.8	0.69	15.96	7.40	0.70	0.037	1.77	0.12	0.078	4.86	0.022	0.28	1.42	4.01	74ppm	41ppm	280ppm	13ppm
	Cu	F	Ga	Li	Mo	Ni	Pb	Rb	Sc	Sr	V	Y	Zn	Zr	CO <sub>2</sub>	Ba	Ag	Be
	460ppm	1150ppm	21ppm	40ppm	130ppm	170ppm	33ppm	230ppm	22ppm	88ppm	960ppm	150ppm	63ppm	290ppm	(0.03)	(0.18)	(0.8ppm)	(4ppm)
	La	U	Yb	As	Ce	Eu	Hf	Lu	Nb	Nd	Sb	Sm	Sn	Ta	Tb	Th	50 g	
	(80ppm)	(22ppm)	(15ppm)	(27.5ppm)	(168ppm)	(3.2ppm)	(7ppm)	(3.6ppm)	(13ppm)	(108ppm)	(8.2ppm)	(22.9ppm)	(4.1ppm)	(0.97ppm)	(2.4ppm)	(9.1ppm)	<b>Schwarzschiefer</b>	
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	MnO	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	Ba	Ce	Co	Cr	Cu	Ga	
X 41	56.67	13.50	4.2	(0.3)	8.10	1.50	0.93	1.39	0.06	0.55	0.05	0.0820	(0.0060)	(0.0015)	0.0123	0.0053	(0.0020)	
X 44	34.84	58.80	2.06	(1.0)	(0.1)	0.14	(0.05)	0.18	0.03	1.83	0.10	(0.0050)	(0.0220)	(0.0008)	0.0384	(0.0010)	(0.0055)	
	Mo	Nb	Ni	Pb	Rb	S	Sr	Th	V	Y	Zn	Zr	100 g					
	(0.0005)	0.0008	0.0122	(0.0030)	0.0059	(0.15)	0.0054	(0.0012)	0.0139	0.0017	0.0076	0.0146	<b>Brandschiefer; Carbonaceous Shale</b>					
	(0.0015)	0.0096	(0.0015)	(0.0030)	0.0013	(0.03)	0.0005	0.0050	0.0395	0.0084	0.0271	0.0406	<b>Silimanitschiefer; Silimanite Schist</b>					
CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO	Fe <sub>2</sub> O <sub>3</sub>	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	LOI	ppm As	ppm Ba	ppm Be	ppm Ce	ppm Co	ppm Cr
UL AWI1	60.46	0.92	16.44	(5.52)	7.21	0.14	(2.09)	0.69	0.74	3.06	(0.15)	7.75	(15)	378	(2.7)	80	20	119
UL SBO1	55.16	0.94	18.24	(5.61)	7.15	0.18	(1.97)	1.76	0.66	3.55	0.17	9.67	(32)	549	(3.2)	101	22	116
	ppm Cs	ppm Cu	ppm Dy	ppm Er	ppm Eu	ppm Ga	ppm Gd	ppm Hf	ppm Ho	ppm La	ppm Lu	ppm Nb	ppm Nd	ppm Ni	ppm Pb	ppm Pr	ppm Rb	ppm Sc
	(7)	34	5.1	2.9	1.47	22	6	6.3	1.1	38	0.45	17	37	61	(24)	9.3	130	16
	(6.8)	33	(5.1)	(3.4)	1.64	(23)	6.2	5	(1.3)	48	0.49	17	42	60	27	11.1	163	17
	ppm Sm	ppm Sr	ppm Ta	ppm Tb	ppm Th	ppm Tm	ppm U	ppm V	ppm Y	ppm Yb	ppm Zn	ppm Zr	20 g					
	7	108	1.2	0.94	12	0.42	3	134	29	3	99	223	<b>Schiefer; Shale</b>					
	7.8	150	1.4	1	15.2	(0.43)	3.1	153	32	3.2	82	183	<b>Schiefer; Schist</b>					



CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	Fe <sub>2</sub> O <sub>3</sub> (t)	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	H <sub>2</sub> O+	H <sub>2</sub> O-	ppm Ag	ppm As	ppm Ba	ppm Be
JG JSI-1	59.47	17.60	1.875	4.523	6.764	0.0599	2.413	1.479	2.184	2.845	0.725	0.202	3.92	0.654	(0.119)	14.9	305	2.28
JG JSI-2	59.45	18.17	0.959	5.048	6.650	0.0818	2.385	1.885	1.344	3.008	0.754	0.164	4.158	0.362	(0.061)	11.4	302	2.68
	ppm Ce	ppm Cl	ppm Co	ppm Cr	ppm Cs	ppm Cu	ppm Dy	ppm Er	ppm Eu	ppm F	ppm Hf	ppm Ho	ppm La	ppm Li	ppm Lu	ppm Nb	ppm Nd	ppm Ni
	60.6	(21.5)	15.5	60.9	7.60	40.8	(5.11)	(1.15)	1.22	598	4.63	0.688	29.3	(50.7)	0.442	9.53	28.8	37.6
	69.6	(18.5)	15.7	64.7	8.24	44.5	4.71	(2.24)	1.14	678	5.54	(0.671)	32.7	52.6	0.404	12.3	32.0	40.6
	ppm Pb	ppm Pr	ppm Rb	ppm S	ppm Sc	ppm Sm	ppm Sr	ppm Ta	ppm Tb	ppm Th	ppm U	ppm V	ppm Y	ppm Yb	ppm Zn	ppm Zr	20 g	
	17.4	6.07	117	1467	16.7	6.02	193	0.842	0.717	9.97	2.63	131	30	2.81	108	174	<b>Schiefer</b>	
	19.7	(6.44)	118	(579)	16.8	5.95	230	1.04	0.727	11.5	2.92	122	31.3	3.15	101	191	<b>Slate</b>	

CRM	ppm U	ppm Th	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	H <sub>2</sub> O	CO <sub>2</sub>	S	F	80 g
GB 04117	4.6	17.9	68.93	14.99	3.47	2.69	0.052	1.04	2.69	3.13	4.17	0.438	0.122	0.73	0.09	0.007	0.065	<b>U-Gestein</b>
GB 04118	37.1	29.7	76.63	12.39	0.99	0.47	0.060	0.06	0.76	3.39	4.66	0.070	0.012	0.39	0.04	0.002	0.123	<b>U-Rocks</b>
GB 04119	86.2	11.9	79.16	12.25	1.30	0.22	0.025	0.24	0.08	0.055	2.35	0.246	0.141	3.52	0.06	0.036	0.034	
GB 04120	1.2	3.4	56.03	6.31	1.99	0.95	0.139	1.00	16.61	1.82	0.840	0.437	0.067	1.31	13.91	0.005	0.019	
GB 04121	6.1	21.7	72.01	11.96	5.33	3.04	0.114	0.08	0.39	3.12	6.08	0.292	0.027	0.43	0.38	0.017	0.031	
GB 04122	66.4	29.4	75.18	12.22	1.84	1.24	0.073	0.21	0.88	2.73	4.69	0.119	0.031	0.99	0.51	0.051	0.126	

Probe GB 04120 enthält zusätzlich C(org.) 0.23%

Sample GB 04120 contains additional C(org) 0.23%

CRM	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	TiO <sub>2</sub>	K <sub>2</sub> O	Na <sub>2</sub> O	Cr <sub>2</sub> O <sub>3</sub>	MnO	P <sub>2</sub> O <sub>5</sub>	LOI	60 g					
GB 03112	98.51	0.093	0.84	0.077	0.066	0.020	0.061	0.021	0.00034	(0.0016)	(0.0041)	0.24	<b>Sandstein, silikatisch</b>					
GB 03113	95.74	0.21	2.36	0.17	0.098	0.036	0.67	0.25	0.00054	(0.0033)	(0.0076)	0.35	<b>Siliceous Sandstone</b>					
GB 03114	89.59	0.48	5.48	0.34	0.16	0.102	2.07	1.09	0.0012	(0.010)	(0.014)	0.53						

CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	LOI	ppm Ba	ppm Be	ppm Ce	ppm Co	ppm Cr	ppm Dy	ppm Eu	
UL PRI1	68.60	0.71	10.84	3.32	0.04	3.24	2.49	1.71	3.79	0.18	4.99	531	1.4	82	7.4	78	4.3	1.29	
	ppm Gd	ppm Hf	ppm La	ppm Lu	ppm Nb	ppm Nd	ppm Ni	ppm Rb	ppm Sc	ppm Sm	ppm Sr	ppm Ta	ppm Tb	ppm Th	ppm U	ppm V	ppm Y	ppm Yb	
	5.3	10.7	38	0.41	13	36	21	90	9.7	6.6	88	1	0.85	11.3	2.5	65	25	2.8	
	ppm Zn	ppm Zr	20 g																
	47	386	<b>Psammit; Psammite</b>																

RM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	B	Ba	Be	Cl	Co	Cr	Cs	
VS MO7	40.79	17.60	3.73	7.76	6.46	14.62	2.05	0.75	3.39	1.08	0.15	0.00045	(0.7480)	(0.00012)	0.0750	0.0049	0.0076	0.00011	
VS MO8	51.98	16.39	0.85	9.61	6.39	9.02	3.27	0.46	1.15	0.21	0.16	0.00075	0.0272	0.00008	0.0270	0.0048	0.0126	0.00011	
VS MO9	50.63	21.78	1.06	7.06	4.90	9,00	3.80	0.47	0.49	0.12	0.10	0.00093	0.0186	0.00009	0.0280	0.0047	0.0025	0.00016	
VS MO10	51.65	23.91	1.45	4.40	2.24	10.18	3.99	0.50	0.83	0.13	0.073	0.00087	0.0294	0.00011	0.0240	0.0027	0.0023	0.000055	
VS MO11	53.46	27.42	0.53	1.09	0.49	10.95	4.39	0.65	0.18	0.041	0.037	0.00045	0.0319	0.00008	0.0240	0.00096	0.0012	0.000073	
VS MO12	49.87	16.74	2.96	6.82	7.38	8.73	3.85	1.12	1.61	0.45	0.14	0.00093	0.0311	0.00023	0.0240	0.0044	0.0181	0.00006	
VS MO13	49.50	17.92	3.88	5.83	5.85	9.08	3.90	0.95	1.66	0.40	0.14	0.00093	0.0272	0.00026	0.0340	0.0047	0.0115	0.00009	
VS MO14	46.85	17.06	3.26	6.83	8.05	9.60	3.00	0.46	1.62	0.37	0.15	0.00087	0.0172	0.00019	0.0260	0.0050	0.0152	0.00015	
VS MO15	40.55	19.03	4.09	4.90	5.23	0.30	4.39	1.51	1.68	0.39	0.059	0.00099	0.0225	0.00022	0.0650	0.0034	0.0136	0.00014	
	Cu	F	Ga	La	Li	Mo	Nb	Ni	Pb	Rb	Sc	S	Sn	Sr	V	Y	Yb	Zn	
	0.0059	0.1300	(0.0018)	0.0037	0.00054	(0.00024)	0.0012	0.0045	0.00076	0.0012	(0.0025)	0.1800	(0.00038)	(0.1745)	0.0270	-	-	0.0065	
	0.0040	0.0390	0.0018	0.0026	0.00055	0.00032	0.00037	0.0018	0.00073	0.00040	0.0031	0.1799	0.00027	0.0477	0.0199	0.0018	0.00020	0.0084	
	0.0039	0.0350	0.0050	0.0039	0.00090	0.00024	0.00035	0.0081	0.00069	0.00046	0.0010	0.0380	0.00036	0.0404	0.0051	0.0014	0.00019	0.0066	
	0.0044	0.0380	0.0026	0.0024	0.00071	0.00020	0.00039	0.0032	0.00080	0.00055	0.0011	0.0460	0.00050	0.0477	0.0109	0.0017	0.00020	0.0096	
	0.0026	0.0420	0.0021	0.0020	0.00075	0.00012	0.00026	0.0014	0.00068	0.00027	0.0005	0.0100	0.00051	(0.0802)	0.0024	0.0008	0.00011	0.0050	
	0.0054	0.0600	0.0019	0.0045	0.00092	0.00039	0.0014	0.0137	0.0011	0.0016	0.0022	0.0060	0.00039	0.0865	0.0199	0.0034	0.00033	0.0130	
	0.0060	0.0520	0.0020	0.0040	0.0015	0.00030	0.0013	0.0076	0.00093	0.0013	0.0022	0.0060	0.00032	0.0692	0.0226	0.0036	0.00026	0.0074	
	0.0066	0.0470	0.0015	0.0034	0.00075	0.00025	0.0011	0.0111	0.00086	0.00040	0.0025	0.0060	0.00024	0.0468	0.0181	0.0039	0.00030	0.0108	
	0.0028	0.1600	0.0020	0.0069	0.0016	0.00034	0.0013	0.0090	0.00088	0.0050	0.0029	0.0160	0.00042	0.0554	0.0234	0.0039	0.00026	0.0033	
	Zr	Fe <sub>2</sub> O <sub>3</sub> (tot)H <sub>2</sub> O+	H <sub>2</sub> O	H <sub>2</sub> O(tot)	CO <sub>2</sub>	40 g													
	0.0053	12.35	0.70	0.12	0.82	0.03	Orthoclase-Gabbro												
	0.0048	11.53	0.22	0.088	0.31	0.43	Gabbro												
	0.0054	8.91	0.37	0.10	0.47	0.16	Anorthosite-Gabbro												
	0.0058	6.34	0.26	0.095	0.36	0.14	Anorthosite												
	0.0042	1.74	0.33	0.088	0.42	0.0	Anorthosite												
	0.0152	10.54	0.18	0.095	0.28	0.0	Andesite-Basalt												
	0.0180	10.47	0.27	0.16	0.43	0.0	Olivine-Basalt												
	0.0162	10.85	1.73	0.81	2.54	0.0	Olivine-Basalt												
	0.0152	10.07	1.34	0.32	1.66	0.20	Porph. Andesite-Basalt												
CRM	P <sub>2</sub> O <sub>5</sub>	SiO <sub>2</sub>	CaO	MgO	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	MnO	TiO <sub>2</sub>	F	CO <sub>2</sub>	K <sub>2</sub> O	Na <sub>2</sub> O	SrO	I	S	100 g	CaO = CaO + SrO		
GB 07210	36.89	3.26	51.32	0.43	1.04	0.58	0.024	0.037	3.54	2.15	0.17	0.33	0.077	0.0052	-	Phosphatgesteine			
GB 07211	20.86	3.61	40.71	8.19	1.08	2.58	0.015	0.14	2.05	18.46	0.28	0.059	0.16	0.0059	0.79	Phosphate Rocks			
GB 07212	6.00	38.80	19.42	7.12	3.08	4.06	0.026	0.48	0.51	16.41	2.63	0.14	0.055	-	-				
CRM	P <sub>2</sub> O <sub>5</sub>	CaO	SiO <sub>2</sub>	F	Fe <sub>2</sub> O <sub>3</sub> (sol)	Al <sub>2</sub> O <sub>3</sub> (sol)	Al(tot)	MgO	Na <sub>2</sub> O	K <sub>2</sub> O(sol)	K <sub>2</sub> O(tot)	SrO	120 g						
IP 18B	35.7	52.6	1.15	1.33	0.21	0.31	0.35	1.65	0.14	0.21	0.23	0.48	Phosphatgestein; Phosphate Rock						
CRM	P <sub>2</sub> O <sub>5</sub>	CaO	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	MnO	Na <sub>2</sub> O	TiO <sub>2</sub>	U <sub>3</sub> O <sub>8</sub>	V <sub>2</sub> O <sub>3</sub>	CdO	F	S	SO <sub>4</sub>	As <sub>2</sub> O <sub>3</sub>	CoO	Cr <sub>2</sub> O <sub>3</sub>	
3 120c	33.34	48.02	1.30	5.5	1.08	0.147	0.027	0.52	0.103	0.0135	0.016	0.0010	3.82	(0.37)	(1.7)	(0.001)	(0.01)	(0.0016)	
	CuO	Eu <sub>2</sub> O <sub>3</sub>	MoO <sub>3</sub>	NiO	PbO	SrO	ZnO	90 g											
	(0.0005)	(0.002)	(0.004)	(0.003)	(0.37)	(0.1)	(0.009)	Florida Phosphatgestein; Florida Phosphate Rock											

CRM	P <sub>2</sub> O <sub>5</sub>	CaO	CO <sub>2</sub>	F	SiO <sub>2</sub>	SO <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	MgO	Fe <sub>2</sub> O <sub>3</sub>	ppm As	ppm B	ppm Cd	ppm Cr	ppm Co	ppm Cu	ppm Hg	ppm Mn	ppm Ni	
H 032	32.98	51.76	5.10	4.04	2.09	1.84	0.55	0.403	0.231	9.5	22.6	20.8	257	0.59	33.7	0.055	18.8	34.6	
	ppm Ti	ppm V	ppm Zn	100 g															
	171	153	253	Phosphatgestein; Phosphate Rock															
CRM	P <sub>2</sub> O <sub>5</sub>	CaO	F	CO <sub>2</sub>	MgO	SrO	Fe <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Cl	100 g								
X 32	39.96	54.44	2.49	1.61	0.50	0.52	0.14	(0.4)	(0.05)	0.0640	Phosphatgestein; Phosphate Rock								
CRM	P <sub>2</sub> O <sub>5</sub>	SiO <sub>2</sub>	CaO	Al <sub>2</sub> O <sub>3</sub>	CdO	F	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	MgO	MnO	Na <sub>2</sub> O	U	V <sub>2</sub> O <sub>5</sub>	Cr <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	ZnO	90 g		
3 694	30.2	11.2	43.6	1.8	0.015	3.2	0.79	0.51	0.33	0.0116	0.86	0.01414	0.31	(0.10)	(0.11)	(0.19)	West. Phosphat West. Phosphate		
CRM	P <sub>2</sub> O <sub>5</sub>	SO <sub>4</sub>	CaO	SiO <sub>2</sub>	F	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	100 g										
H 033	19.34	42.80	31.48	2.92	1.65	1.10	0.40	0.212	Superphosphat; Super Phosphate										
CRM	K	Cl	Na	Ca	Mg	K(sol)	100 g												
H 113	50.25	47.80	1.53	0.103	0.024	50.13	Kaliumchlorid; Potassium Chloride			(sol = wasserlöslich/water soluble)									
CRM	K	SO <sub>4</sub>	Cl	Na	Ca	Mg	K(sol)	100 g											
H 114	41.80	53.3	1.85	1.10	0.94	0.074	41.76	Kaliumsulfat; Potassium Sulphate			(sol = wasserlöslich/water soluble)								
CRM	NH <sub>4</sub>	NO <sub>3</sub>	N	Ca	100 g														
H 178	13.044	13.015	26.019	8.882	Kalzium-Ammoniumnitrat; Calcium Ammonium Nitrate														
CRM	N	Uric	Biuret	100 g															
H 179	46.535	46.09	1.037	Harnstoff; Urea															
CRM	N	C	H	O	Biuret	Ca	Mn	Fe	B										
GB 06202	46.65	20.00	6.71	26.64	-	-	-	-	-	2 g	Harnstoff								
GB 06501	46.30	-	-	-	1.39	(1.1ppm)	(0.2ppm)	(1.1ppm)	(2.6ppm)	35 g	Urea								
CRM	N	P	K	90 g															
3 193	13.5	-	38.66	Kaliumnitrat; Potassium Nitrate															
3 194	12.15	26.92	-	Ammonium Dihydrogen Phosphate															
3 200a	-	22.7352	28.735	Potassium Dihydrogen Phosphate															
CRM	N	P	Ca	Mg	Fe	30 g													
GB 06502	12.08	26.85	(2.1ppm)	(0.2ppm)	(3.5ppm)	Ammonium Dihydrogen Phosphate													
CRM	K	Ca	Mg	Mn	Fe	40 g													
GB 06503	44.79	(67.7ppm)	(4.0ppm)	(0.2ppm)	(4.7ppm)	Potassium Sulfate													

CRM	Al	ppm As	ppm Ba	ppm Br	Ca	ppm Cd	ppm Ce	ppm Co	ppm Cr	ppm Cs	ppm Cu	ppm Dy	ppm Eu	Fe	ppm Hf	K	ppm La	ppm Lu
AE SL1	-	27.5	639	6.82	-	0.26	117	19.8	104	7.01	30.0	7.46	-	6.7400	4.16	-	52.6	-
AE SL3	2.45	3.2	-	5.63	11.11	-	45.5	-	-	1.38	-	2.22	0.66	-	9.10	0.874	22.5	0.30
	Mg	Mn	Na	ppm Nd	ppm Ni	ppm Pb	ppm Rb	ppm Sb	ppm Sc	ppm Sm	ppm Sr	ppm Ta	ppm Tb	ppm Th	Ti	ppm U	ppm V	
	-	0.3460	0.1720	43.8	44.9	37.7	113	1.31	17.3	9.25	-	-	-	14	5.17	4.02	170	
	2.70	-	0.669	21.5	-	-	38.8	0.56	3.91	3.83	0.47	0.70	0.49	7.02	2.61	2.30	-	
	ppm Yb	ppm Zn	25 g															
	3.42	223	Flußablagerung, Binnensee															
	1.89	-	Sediment, Lake															
CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	H <sub>2</sub> O	CO <sub>2</sub>	ppm Ag	ppm As	ppm B	ppm Ba	ppm Be	ppm Bi
GB 07302	(69.90)	(0.23)	(15.72)	(1.89)	(0.05)	(0.03)	(0.21)	(0.25)	(3.04)	(5.19)	(2.45)	(0.07)	0.066	6.2	10.8	185	17.1	1.64
GB 07304	(52.51)	(0.89)	(15.67)	(5.90)	(0.11)	(0.11)	(1.04)	(7.25)	(0.30)	(2.23)	(6.38)	(5.44)	0.084	19.7	52	470	2.4	0.64
GB 07305	(56.36)	(0.90)	(15.37)	(5.86)	(0.14)	(0.15)	(0.98)	(5.34)	(0.40)	(2.10)	(6.41)	(3.57)	0.36	75	51	440	2.3	2.4
GB 07306	(61.23)	(0.78)	(14.16)	(5.88)	(0.23)	(0.13)	(3.00)	(3.87)	(2.31)	(2.44)	(3.37)	(2.01)	0.36	13.6	50	330	1.7	5.0
GB 07308	(82.92)	(0.61)	(7.71)	(2.20)	(0.03)	(0.04)	(0.25)	(0.25)	(0.47)	(2.83)	(2.12)	(0.08)	0.062	2.4	3.6	480	2.0	0.19
	ppm Cd	ppm Ce	ppm Co	ppm Cr	ppm Cs	ppm Cu	ppm Dy	ppm Er	ppm Eu	ppm F	ppm Ga	ppm Gd	ppm Ge	ppm Hf	ppm Hg	ppm Ho	ppm In	ppm La
	0.065	192	2.6	12.2	16.6	4.9	11	(8.0)	0.49	1980	27.4	9.5	1.7	(20)	0.04	(2.9)	(0.046)	90
	0.19	78	18	81	10	37.3	4.6	2.4	1.3	740	20.5	5.0	1.4	-	0.044	(0.07)	(0.09)	40
	0.82	89	18.9	70	9.4	137	5.0	3.1	1.4	585	20.3	6.4	1.4	-	0.10	(1.1)	0.13	46
	0.43	68	24.4	190	9.1	383	3.8	(2.1)	1.5	690	16.7	5.5	1.3	-	0.045	(0.78)	0.14	39
	0.081	54	3.6	7.6	3.6	4.1	2.6	1.8	0.56	204	10.8	3.5	0.94	(15)	0.042	(0.96)	(0.043)	30
	ppm Li	ppm Lu	ppm Mn	ppm Mo	ppm Nb	ppm Nd	ppm Ni	ppm P	ppm Pb	ppm Pr	ppm Rb	ppm Sb	ppm Sc	ppm Se	ppm Sm	ppm Sn	ppm Sr	ppm Ta
	101	1.6	240	2.0	95	62	5.5	200	32	18.6	470	0.46	4.4	(0.21)	10.8	29	28	15.3
	51	(0.46)	825	0.86	18	32	40	470	30.4	9.3	130	1.84	15.4	(0.28)	6.2	4.0	142	(1.36)
	45	0.46	1160	1.2	19	35	34	630	112	(9.6)	118	3.9	14.5	(0.36)	6.6	4.6	204	(1.4)
	40	(0.36)	970	7.7	12	33	78	1020	27	(8.2)	107	1.25	17	(0.30)	5.6	2.8	266	(0.72)
	13.2	(0.36)	335	0.54	35	21	2.7	140	21	5.7	132	0.24	5.7	(0.15)	3.8	9.4	52	3.7
	ppm Tb	ppm Te	ppm Th	ppm Ti	ppm Tl	ppm Tm	ppm U	ppm V	ppm W	ppm Y	ppm Yb	ppm Zn	ppm Zr	70 g				
	1.8	(0.031)	70	1380	1.9	1.55	17	16.5	24.4	67	11	44	460	Stream Sediment				
	0.90	(0.08)	14.6	5340	1.2	0.48	2.6	118	2.5	26	2.9	101	188					
	0.9	(0.12)	15.2	5370	1.16	0.48	2.6	109	3.2	26	2.9	243	220					
	0.69	(0.14)	9.0	4640	1.08	(0.38)	2.4	142	25	20.2	2.1	144	170					
	0.54	-	13.4	3640	0.78	(0.36)	3.0	26	195	18	2.1	43	490					

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	H <sub>2</sub> O	C (org)	CO <sub>2</sub>	ppm Ag	ppm As	ppm Au	ppm B	ppm Ba	ppm Be	
GB 07309	64.89	10.58	4.86	(1.52)	2.39	5.35	1.44	1.99	(2.93)	(0.47)	(4.19)	0.089	8.4	(1.3e-7)	54	430	1.8	
GB 07310	88.89	2.84	3.86	(0.24)	0.12	0.70	(0.04)	0.125	(2.10)	(0.44)	(0.40)	0.27	25	-	26	42	0.9	
GB 07311	76.25	10.37	4.39	(0.34)	0.62	0.47	0.46	3.28	(2.66)	(0.09)	(0.24)	3.2	188	(3.6e-7)	68	260	26	
GB 07312	77.29	9.30	4.88	(1.19)	0.47	1.16	0.44	2.91	(2.10)	(0.18)	(0.40)	1.15	115	(5.6e-7)	24	206	8.2	
	ppm Bi	ppm Br	ppm Cd	ppm Ce	ppm Cl	ppm Co	ppm Cr	ppm Cs	ppm Cu	ppm Dy	ppm Er	ppm Eu	ppm F	ppm Ga	ppm Gd	ppm Ge	ppm Hf	
	0.42	(1.5)	0.26	78	(50)	14.4	85	5.1	32.1	5.1	2.8	1.33	494	14.0	5.5	1.28	9.7	
	0.38	(2.4)	1.12	38	(53)	15.3	136	2.3	22.6	2.2	1.3	0.47	149	6.4	2.25	0.40	1.8	
	50	(2.3)	2.3	58	290	8.5	40	17.4	78.6	7.2	4.6	0.60	0.165e-7	18.5	5.9	1.81	5.4	
	10.9	(1.7)	4.0	61	(163)	8.8	35	7.9	1230	4.8	3.1	0.61	1250	14.1	4.4	1.87	8.3	
	ppm Hg	ppm Ho	ppm I	ppm In	ppm La	ppm Li	ppm Lu	ppm Mn	ppm Mo	ppm Nb	ppm Nd	ppm Ni	ppm P	ppm Pb	ppm Pr	ppm Rb	ppm S	
	83e-7	0.96	(0.61)	0.056	40	30	0.45	620	0.64	17.7	34	32.3	670	23	9.2	80	150	
	280e-7	0.45	1.6	0.067	13.0	13.0	0.19	1013	1.2	6.8	11.8	30.2	271	27	3.2	9.2	90	
	72e-7	1.4	2.0	1.86	30	70.6	0.78	2490	5.9	25	27	14.3	255	636	7.4	408	170	
	56e-7	0.94	1.8	0.96	32.7	39.0	0.58	1400	8.4	15.4	25.6	12.8	235	185	6.9	270	940	
	ppm Sb	ppm Sc	ppm Se	ppm Sm	ppm Sn	ppm Sr	ppm Ta	ppm Tb	ppm Te	ppm Th	ppm Ti	ppm Tl	ppm Tm	ppm U	ppm V	ppm W	ppm Y	
	0.81	11.1	0.16	6.3	2.6	166	1.3	0.87	(0.04)	12.4	5500	0.49	0.44	2.6	97	1.76	26.6	
	6.3	4.1	0.28	2.4	1.4	25.3	(0.52)	0.42	(0.09)	5.0	1270	0.21	0.20	2.1	107	1.63	13.8	
	14.9	7.4	0.20	6.2	370	29	5.7	1.13	(0.38)	23.3	2100	2.9	0.74	9.1	46.8	126	42.7	
	24.3	5.1	0.25	5.0	54	24.4	3.2	0.82	0.29	21.4	1510	1.76	0.53	7.8	46.6	37.4	29.3	
	ppm Yb	ppm Zn	ppm Zr	LOI	70 g													
	2.8	78	370	(7.21)	<b>Flußablagerung</b>													
	1.2	46	70	(2.88)	<b>Stream Sediment</b>													
	5.1	373	153	(3.02)														
	3.7	498	234	(2.62)														
RM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	Fe <sub>2</sub> O <sub>3</sub> (t)	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	H <sub>2</sub> O+	H <sub>2</sub> O	CO <sub>2</sub>	ppm As	ppm Ba	ppm Be
JG JSd-1	66.55	0.643	14.65	3.526	1.363	5.059	0.0924	1.813	3.034	2.727	2.183	0.122	2.554	0.451	(0.0867)	2.42	520	1.40
JG JSd-2	60.78	0.614	12.31	4.552	5.955	11.65	0.120	2.731	3.658	2.438	1.145	0.105	2.554	0.451	(0.501)	38.6	1199	(1.04)
JG JSd-3	76.00	0.403	9.908	3.057	1.161	4.368	0.148	1.17	0.560	0.411	1.971	0.0817	2.838	0.964	-	252	462	(9.08)
	ppm Ce	ppm Co	ppm Cr	ppm Cs	ppm Cu	ppm Dy	ppm Er	ppm Eu	ppm F	ppm Gd	ppm Hf	ppm La	ppm Li	ppm Lu	ppm Mo	ppm Nb	ppm Nd	ppm Ni
	34.4	11.2	21.5	1.89	22.0	2.23	0.906	0.925	306	2.71	3.55	18.1	22.8	0.186	(0.669)	11.1	17.6	7.04
	23.4	48.4	108	1.07	1117	2.86	1.48	0.81	259	(2.67)	2.70	11.3	(19.2)	0.252	11.5	4.56	13.2	92.8
	42.0	12.7	35.3	30.6	426	2.22	1.07	0.686	3200	(2.63)	3.21	19.8	151	0.196	-	7.80	15.7	19.6
	ppm Pb	ppm Pr	ppm Rb	ppm S	ppm Sc	ppm Sm	ppm Sr	ppm Ta	ppm Tb	ppm Th	ppm U	ppm V	ppm Y	ppm Yb	ppm Zn	ppm Zr	100 g	
	12.9	4.05	67.4	(68)	10.9	3.48	340		0.893	0.431	4.44	1.00	76.0	14.8	1.18	96.5	132	<b>Flußsediment</b>
	146	2.40	26.9	13100	17.5	2.68	202		(0.515)	0.440	2.33	1.10	125	17.4	1.67	2056	111	<b>Stream Sediment</b>
	821	3.40	285	(399)	10.5	3.26	58.7		0.687	0.368	7.79	1.66	70.4	14.9	1.40	136	124	

CRM	ppm As	ppm Cd	ppm Cr	ppm Cu	ppm Hg	ppm Ni	ppm Pb	ppm Sc	ppm Se	ppm Zn	40 g							
H 320	76.7	0.533	138	44.1	1.03	75.2	42.3	15.25	0.214	142	Flußablagerung; River Sediment							
CRM	ppm As	ppm Ba	ppm Cd	ppm Co	ppm Cr	ppm Cu	ppm Hg	ppm Mn	ppm Pb	ppm Se	Fe	ppm Be	ppm Ni	ppm V	ppm Zn	50 g		
GB 08301	56	375	2.45	16.5	90	53	0.22	975	79	0.39	3.94	(3.5)	(32)	(96)	(251)	Flußablagerung; River Sediment		
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	MnO	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	C	Fe	S	H <sub>2</sub> O	LOI(500°)	LOI(1000°)		
T LKSD1	40.1	7.8	4.1	1.7	10.8	2.0	1.1	0.1	0.5	0.2	12.3	2.8	1.57	2.92	23.5	29.9		
T LKSD2	58.9	12.3	6.2	1.7	2.2	1.9	2.6	0.3	0.6	0.3	4.5	4.3	0.14	2.23	12.3	13.6		
T LKSD3	58.5	12.5	5.7	2.0	2.3	2.3	2.2	0.2	0.5	0.2	4.5	4.0	0.14	2.07	11.8	13.4		
T LKSD4	41.6	5.9	4.1	0.9	1.8	0.7	0.8	0.1	0.4	0.3	17.7	2.8	0.99	6.55	40.8	43.6		
T STSD1	42.5	9.0	6.5	2.2	3.6	1.8	1.2	0.5	0.8	0.4	12.3	4.7	0.18	4.46	29.7	31.6		
T STSD2	53.7	26.1	7.5	3.1	4.0	1.7	2.1	0.1	0.8	0.3	1.6	5.2	0.06	2.43	8.7	10.3		
T STSD3	48.6	10.9	6.2	2.2	3.3	1.5	1.8	0.3	0.7	0.4	8.4	4.4	0.14	3.47	21.6	23.6		
T STSD4	58.9	12.1	5.7	2.1	4.0	2.7	1.6	0.2	0.8	0.2	4.1	4.1	0.09	1.73	10.2	11.6		
	ppm Ag	ppm As	ppm Au	ppm B	ppm Ba	ppm Be	ppm Br	ppm Ce	ppm Co	ppm Cr	ppm Cs	ppm Cu	ppm Dy	ppm Eu	ppm F	ppm Hf	ppm La	ppm Li
	0.6	40	0.005	49	430	1.1	11	27	11	31	1.5	44	3.4	0.9	300	3.6	16	7
	0.8	11	0.003	65	780	2.5	18	108	17	57	3.0	37	7.3	1.9	590	7.0	68	20
	2.7	27	0.003	25	680	1.9	16	90	30	87	2.3	35	4.9	1.5	490	4.8	52	25
	<0.5	16	0.002	22	330	1.0	49	48	11	33	17	31	3.7	1.1	260	2.8	26	12
	<0.5	23	0.008	89	630	1.6	40	51	17	67	1.8	36	5.6	1.6	950	6.1	30	11
	0.5	42	0.003	42	540	5.2	4	93	19	116	12	47	6.5	2.0	940	5.0	59	65
	<0.5	28	0.007	82	1490	2.6	24	63	16	80	5.2	39	5.4	1.3	850	5.1	39	23
	<0.5	15	0.004	46	2000	1.7	13	44	13	93	1.9	65	3.8	1.2	380	5.5	24	14
	ppm Lu	ppm Mn	ppm Mo	ppm Nb	ppm Nd	ppm Ni	ppm Pb	ppm Rb	ppm Sb	ppm Sc	ppm Sm	ppm Sn	ppm Sr	ppm Ta	ppm Tb	ppm Th	ppm Ti	ppm U
	0.4	700	10	7	16	16	82	24	1.2	9	4	16	250	0.3	0.6	2.2	3010	9.7
	0.6	2020	<5	8	58	26	44	85	1.1	13	11	5	220	0.8	1.4	13.4	3460	7.6
	0.4	1440	<5	8	44	47	29	78	1.3	13	8	3	240	0.7	1.0	11.4	3330	4.6
	0.5	500	<5	9	25	31	91	28	1.7	7	5	5	110	0.4	1.2	5.1	2270	31.0
	0.8	3950	<5	5	28	24	35	30	3.3	14	6	4	170	0.4	1.2	3.7	4600	8.0
	0.7	1060	13	20	43	53	66	104	4.8	16	8	5	400	1.6	1.3	17.2	4870	18.6
	0.8	2730	6	12	33	30	40	68	4.0	13	7	4	230	0.9	1.1	5.5	4400	10.5
	0.5	1520	<5	9	21	30	16	39	7.3	14	5	2	350	0.6	0.9	4.3	4530	3.0
	ppm V	ppm W	ppm Y	ppm Yb	ppm Zn	ppm Zr	100 g											
	50	<4	19	2.0	331	134	Ablagerung, Binnensee					KÖNIGSWASSER-Werte zertifiziert; AUQA REGIA-values certified						
	77	<4	44	4.0	209	254	Lake Sediment					Zertifikat auf Anfrage; certificate on request						
	82	<4	30	2.7	152	178												
	49	<4	23	2.0	194	105												
	98	<4	42	4.0	198	218	Ablagerung, Fluß					KÖNIGSWASSER-Werte zertifiziert; AUQA REGIA-values certified						
	101	7	37	3.7	246	185	Stream Sediment					Zertifikat auf Anfrage; certificate on request						
	134	<4	36	3.4	204	196												
	106	<4	24	2.6	107	190												

6.12.4

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	MnO	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	Cr <sub>2</sub> O <sub>3</sub>	Ba	Ce	Co	Cr	Cu	Ga	
X 46	35.90	6.71	28.16	(18.0)	3.16	1.32	0.28	0.35	1.14	0.60	0.11	-	(0.0180)	(0.0110)	0.0056	0.0559	0.0566	-	
X 51	33.81	11.87	18.36	(3.0)	0.92	0.86	0.07	0.33	0.21	0.82	0.21	-	(0.0335)	(0.0120)	0.0060	0.0509	0.0268	(0.0020)	
X 52	57.81	9.38	19.71	(4.0)	0.60	0.37	(0.1)	0.25	0.27	1.30	0.09	0.19	(0.0410)	(0.0210)	0.0081	-	0.0219	(0.0015)	
	Mo	Nb	Ni	Pb	Rb	S	Sr	Th	V	Y	Zn	Zr	100 g						
	(0.0010)	-	(0.0125)	(0.00013)	(0.0020)	(0.17)	0.0025	-	0.0225	(0.0020)	0.59	0.101	Flußsediment						
	-	(0.0009)	0.0178	0.52	0.0037	(0.24)	0.0044	(0.0010)	0.0181	0.0021	0.22	0.0121	Stream Sediment						
	-	0.0011	0.0182	0.12	0.0020	(0.02)	0.0025	(0.0011)	0.0364	0.0020	0.0264	0.0250							
RM	Al	Ca	C	Fe	Mg	K	Na	Ti	ppm Sb	ppm As	ppm Ba	ppm Cd	ppm Ce	ppm Cs	ppm Cr	ppm Co	ppm Eu	ppm Hf	ppm Pb
3 8704	6.10	2.641	3.351	3.97	1.200	2.001	0.553	0.457	3.09	(17)	413	2.94	66.5	5.83	121.9	13.57	1.31	8.4	150
	ppm Mn	ppm Ni	ppm Sc	ppm Th	ppm U	ppm V	ppm Zn	50 g	als RM charakterisiert, bitte anfragen; characterized as RM, please inquire										
	544	42.9	11.26	9.07	3.09	94.6	408	Ablagerung, Buffalo Fluß; Buffalo River Sediment											
CRM	Al	Ca	Fe	Mg	P	K	Si	Na	S	Ti	ppm As	ppm Cd	ppm Cr	ppm Cu	ppm Pb	ppm Mn	ppm Se		
3 1646a	2.297	0.519	2.008	0.388	0.027	0.864	40.0	0.741	0.352	0.456	6.23	0.148	40.9	10.01	11.7	234.5	0.193		
	ppm V	ppm Zn	70 g																
	44.84	48.9	Ablagerung, Flußmündung; Estuarine Sediment																
CRM	Al	Fe	K	Na	P	Ti	ppm As	ppm Ba	ppm Ce	ppm Cd	ppm Co	ppm Cr	ppm Hg	ppm La	ppm Mn	ppm Ni	ppm Pb	ppm Rb	ppm Sb
3 2702	8.41	7.91	2.054	0.681	0.1552	0.884	45.3	397.4	123.4	0.817	27.76	352	0.4474	73.5	1757	75.4	132.8	127.7	5.
	ppm Sc	ppm Sr	ppm Th	ppm Tl	ppm V	ppm Zn	50 g												
	25.9	119.7	20.51	0.8267	357.6	485.3	Meeressediment; Marine Sediment												
CRM	ppm Sb	ppm As	ppm Be	ppm Cd	ppm Cr	ppm Co	ppm Cu	ppm Pb	ppm Mn	ppm Hg	ppm Mo	ppm Ni	ppm Se	ppm Sr	ppm Sn	ppm V	ppm Zn	ppm Ag	
NC HISS1	(0.13)	0.801	0.129	0.024	30	(0.65)	2.29	3.13	66.1	(0.01)	(0.13)	2.16	(0.050)	96.9	(0.11)	6.80	4.94	0.016	
NC MESS3	1.02	21.2	2.30	0.24	105	14.4	33.9	21.1	324	0.091	2.78	46.9	0.72	129	2.50	243	159	0.18	
NC PACS2	11.3	26.2	1.0	2.11	90.7	11.5	310	183	440	3.04	5.43	39.5	0.92	276	19.8	133	364	1.22	
	ppm Tl	ppm Li	Al	Ca	Cl	Fe	K	Mg	Na	P	S	Si	Ti						
	(0.06)	2.83	0.73	1.14	(0.35)	0.246	0.332	0.075	0.373	-	-	(44)	0.076	100 g	Meeressediment				
	0.90	73.6	8.59	1.47	-	4.34	(2.6)	(1.6)	(1.6)	(0.12)	(0.19)	(27)	0.44	50 g	Marine Sediment				
	(0.6)	32.2	6.62	1.96	(3)	4.09	1.24	1.47	3.45	0.096	1.29	(28)	0.443	65 g					
NC PACS2 enthält/contains:				Tributyltin (als/as Sn)		0.98 ppm													
				Dibutyltin (als/as Sn)		1.09 ppm													
				Monobutyltin (als/as Sn)		0.45 ppm													

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	C(org)	CO <sub>2</sub>	Ba	H <sub>2</sub> O+	S	Cl	F
GB 07313	53.86	13.75	6.58	(0.29)	0.67	0.45	0.43	3.38	1.71	4.81	2.95	(0.25)	(0.38)	0.44	5.39	0.31	4.07	(0.13)
GB 07314	61.91	13.07	5.36	-	0.285	0.148	0.096	2.50	4.31	1.68	2.48	0.50	4.70	425ppm	-	-	-	-
	ppm As	ppm B	ppm Ce	ppm Co	ppm Cr	ppm Cs	ppm Cu	ppm Dy	ppm Er	ppm Eu	ppm Ga	ppm Gd	ppm Ho	ppm La	ppm Li	ppm Lu	ppm Mo	ppm Nb
	5.8	125	92	76.7	58.4	9.4	424	19.9	11.0	5.3	23.7	22.0	4.3	67.8	60.0	1.46	7.2	(15.1)
	10.3	(73)	(78)	14.2	86	-	31	(5.4)	(3.0)	(1.3)	(16.1)	(5.6)	(1.0)	(38)	-	(0.45)	(0.64)	(19.1)
	ppm Nd	ppm Ni	ppm Pb	ppm Pr	ppm Rb	ppm Sb	ppm Sc	ppm Sm	ppm Sr	ppm Tb	ppm Th	ppm Tm	ppm U	ppm V	ppm W	ppm Y	ppm Yb	ppm Zn
	91.8	150	29.3	20.1	97.3	1.85	25.6	21.5	267	3.4	13.9	1.54	1.98	112	5.5	104	9.8	160
	(33)	34.3	25	(8.7)	(109.3)	(1.4)	(12.5)	(6.7)	150	(0.83)	(10.2)	(0.44)	(2.7)	(103.1)	(2.1)	(27.0)	(2.8)	87
	ppm Zr	ppm Cd	ppm Hg	ppm Se	LOI							25 g + 50 g						
	177	-	-	-	(9.93)	Meeresablagerung; Marine Sediment						75 g	Meeresablagerung; Marine Sediment/Offshore					
	(229)	0.20	0.048	0.16	-													

CRM	Li	Be	B	CO <sub>2</sub> (carb)	Na <sub>2</sub> O	MgO	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	S	K <sub>2</sub> O	CaO	Sc	TiO <sub>2</sub>	V	Cr	MnO	FeO
VS 5368-90	0.005	0.00014	0.005	6.00	4.45	3.21	12.70	41.80	0.23	0.12	1.33	9.20	0.0023	0.73	0.012	0.0066	1.04	0.6
VS 5369-90	0.0035	0.00018	-	2.40	4.00	4.58	14.37	43.50	0.27	0.17	1.34	7.63	0.0026	2.30	0.020	0.026	0.265	2.9
VS 5370-90	0.0013	0.00010	-	32.20	1.86	3.44	3.60	11.90	0.23	0.19	0.51	39.23	0.0006	0.30	0.0057	0.0034	0.218	0.17
VS 5371-90	0.0018	0.00016	0.007	2.70	4.52	3.16	8.96	59.60	0.12	0.17	1.39	6.40	0.0017	0.59	0.0085	0.0080	0.37	1.2
VS 5372-90	0.006	0.00021	0.007	1.00	3.50	3.17	15.97	48.80	0.72	0.15	2.79	3.03	0.0032	0.98	0.015	0.009	1.77	0.20
	Fe <sub>2</sub> O <sub>3</sub>	Co	Ni	Cu	Zn	Ga	Rb	Sr	Y	Zr	Mo	Sn	Ba	La	Ce	Yb	Pb	
	6.92	0.0038	0.019	0.017	0.024	0.0010	0.0028	0.050	0.0030	0.009	0.0004	0.00020	0.32	0.0013	0.0025	0.0003	0.0010	
	11.82	0.0046	0.015	0.018	0.013	0.0012	0.0037	0.051	0.0033	0.017	0.00017	0.00033	0.13	0.0025	0.005	-	0.0018	
	2.44	0.0012	0.0038	0.0030	0.010	0.0005	0.0011	0.12	0.0009	0.008	0.0004	0.021	0.010	0.0007	-	-	0.0011	
	5.05	0.0030	0.010	0.014	0.0090	0.0011	0.0046	0.034	0.0016	0.010	0.00028	0.00032	0.15	0.0015	0.0033	0.00022	0.0024	
	9.23	0.016	0.037	0.032	0.016	0.0014	0.0090	0.029	0.015	0.019	0.0038	0.00040	0.11	0.008	0.010	0.0015	0.0062	
	Th	As	Nb	Cs	Nd	Sm	Au	U	LOI	50 g	Meeresablagerungen							
	0.00024	-	-	-	-	-	-	-	17.5	Lehm; Clay								
	0.0005	-	-	-	-	-	-	-	9.2	Schlick, vulkanisch; Volcanogeneous Ooze								
	0.0003	-	-	-	-	-	-	-	36.6	Schlick, kalkhaltig; Calcareous Ooze								
	0.0005	0.0020	0.0010	0.00030	0.0013	0.00025	0.0000004	0.00015	9.6	Schlamm, silikatisch; Siliceous Silt								
	0.0014	0.0032	0.0012	0.0005	-	0.0020	0.0000005	0.00025	9.3	Roter Lehm, Tiefsee; Red Clay, Deep Water								



RM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	Fe <sub>2</sub> O <sub>3</sub> (tot)	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	H <sub>2</sub> O+	Cl	C (tot)	S (tot)	LOI
JG JMS-1	53.74	0.70	15.82	4.54	2.12	6.90	0.102	2.87	2.13	4.07	2.24	0.18	6.79	2.69	1.69	1.32	15.44
JG JMS-2	41.8	1.40	14.18	10.96	<0.04	10.96	2.26	3.24	4.68	5.79	2.70	1.26	7.13	4.05	0.39	0.29	19.15

ppm As	ppm B	ppm Ba	ppm Be	ppm Co	ppm Cr	ppm Cs	ppm Cu	ppm In	ppm Li	ppm Ni	ppm Pb	ppm Rb	ppm Sb	ppm Sr	ppm Te	ppm V
18	81	307	1.3	18.1	133	5.9	88	0.101	62	53	49	88	1.4	154	0.132	127
35	106	1856	1.8	226	78	3.0	447	0.178	43	311	88	65	4.5	454	1.38	183

ppm Y	ppm Zn	ppm Zr	100 g
24.3	264	132	Meeressediment
254	166	220	Marine Sediment

CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	LOI	As	B	Ba	Be	Ce	Co
VS 7126-94	61.07	0.69	13.57	7.02	1.60	0.40	1.85	2.00	1.96	2.21	0.345	8.34	0.0018	0.0034	0.071	0.00027	0.0080	0.0018
VS 7176-95	62.46	0.76	14.22	5.39	3.50	0.12	7.09	3.12	3.11	1.51	0.139	1.78	-	-	0.053	-	(0.0041)	0.0017
Cr	Cs	Cu	Eu	F	Ga	Ge	Hf	La	Li	Lu	Mo	Nb	Nd	Ni	Pb	Rb	S	
0.0066	0.0006	0.0052	0.00014	0.060	0.0016	0.00014	0.00039	0.0045	0.0037	0.000040	0.00029	0.0012	0.0039	0.0054	0.0021	0.0093	0.165	
0.0158	-	0.0018	(0.00014)	(0.038)	(0.0013)	(0.00013)	(0.00067)	0.0019	0.00085	(0.000041)	(0.00016)	0.0010	(0.0021)	0.0031	0.0014	0.0039	-	
Sc	Sm	Sn	Sr	Ta	Tb	Th	U	V	Y	Yb	Zn	Zr	C (org)	CO <sub>2</sub>	SO <sub>3</sub>	60 g		
0.0013	0.0007	0.00032	0.0266	0.000084	0.00009	0.00127	0.00120	0.011	0.0030	0.00029	0.0096	0.0156	(2.24)	(0.07)	(0.35)	Sediment, Baikalsee		
0.0019	(0.00043)	0.00037	0.0578	-	-	(0.00048)	(0.0003)	0.0105	0.0024	0.00027	0.0064	0.0204	-	(0.74)	(0.05)			

CRM	Al	ppm Cd	ppm Co	ppm Cu	Fe	ppm Mn	ppm Ni	ppm Pb	ppm V	ppm Zn	ppm As	ppm Se	ppm Hg	ppm Cr	5 g
NW WQB1	8.29	2.10*	18.2*	80.0*	4.92*	2260*	59.3*	85.7*	125.0*	279.0*	23.00	1.02	1.09	-	Lake Ontario
NW WQB3	5.80*	3.85*	15.3	83.4*	6.0	1264	52.0	243.0*	88.85*	1396	18.8	1.15	2.75	-	Hamilton Harbour
NW SUD1	6.22*	2.30*	44.8*	565.0*	3.40*	582.5*	941.0*	58.0*	69.90*	771.0*	-	-	-	-	Sudbury
NW TH2	6.33*	4.91*	14.4*	123 *	3.57*	562*	40.1*	190 *	81.8 *	904 *	8.83*	0.815*	0.593*	120*	Toronto Harbour
NW HR1	5.94*	3.80*	13.0*	81.0*	3.19*	540*	38.5*	143.5*	73.35*	1100.0*	-	-	-	-	Humber River

\* = Empfohlene Werte, mögliche Änderung bei Vorlage weiterer Daten; Recommended values, subject to change as more data become available.

CRM	ppm As	ppm Cd	ppm Cu	ppm Pb	ppm Hg	ppm Mo	ppm Ni	ppm Se	ppm Zn	ppm Cr	ppm Ag	N	Al	Ca	Fe	Mg	P	K
3 2781	7.82	12.78	627.4	202.1	3.64	46.7	80.2	16.0	1273	(202)	(98)	4.78	(1.6)	(3.9)	(2.8)	(0.59)	(2.42)	(0.49)
	<b>Si</b>	<b>Na</b>	<b>Ti</b>	<b>40 g</b>														
	(5.1)	(0.21)	(0.32)	<b>Schlamm, häusl. Ursprung; Domestic Sludge</b>														

CRM	ppm Cd	ppm Cr	ppm Co	ppm Cu	ppm Hg	ppm Mn	ppm Ni	ppm Pb	ppm Zn	<b>40 g</b>								
H 144R	1.82	104	15.0	308	3.14	208	47.7	106	932	<b>Abwasserschläm; Sewage Sludge (häusl. Ursprung/domestic Origin)</b>								
H 145R	3.50	(313)	5.61	696	2.01	156	247	286	2122	<b>Abwasserschläm; Sewage Sludge (gemischter Ursprung/mixed Origin)</b>								
H 146R	18.8	196	7.39	838	8.62	324	69.7	609	3061	<b>Abwasserschläm; Sewage Sludge (industr. Ursprung/industr. Origin)</b>								
H 597	-	203	-	-	-	-	-	-	-	<b>Abwasserschläm; Sewage Sludge</b>								

KÖNIGSWASSER-Werte für H 144R, 145R + 146R zertifiziert; Aqua Regia-values for H 144R, 145R + 146R certified.

CRM	ppm Ag	ppm As	ppm Ba	ppm Be	ppm Bi	ppm Cd	ppm Cl	ppm Co	ppm Cr	ppm Cu	ppm Hg	ppm Li	ppm Mn	ppm Mo	ppm Ni	ppm Pb	ppm Sb	ppm Sn
IR WT-H	38.4	146	772	677	-	54.7	6170	315	1340	3140	31.3	11.5	3660	78.4	1140	2290	43.0	20.3
IR WT-M	40.4	9.84	787	72	-	11.9	-	8.20	939	959	14.6	-	942	-	240	841	12.7	20.3
IR WT-L	11.9	8.87	781	3.73	3.73	1.97	-	6.77	79.0	136	4.25	-	390	-	32.0	122	17.8	-
	<b>ppm Sr</b>	<b>ppm V</b>	<b>ppm Zn</b>	<b>Al</b>	<b>Ca</b>	<b>Fe</b>	<b>K</b>	<b>Mg</b>	<b>Na</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>40 b</b>					
	872	33.7	6360	2.51	4.83	1.70	0.582	0.570	(0.282)	1.44	1.34	(8.20)	<b>Abwasserschläm, städt. Kläranlage</b>					
	160	34.2	3080	2.61	5.15	1.74	0.589	0.613	(0.303)	1.58	1.03	(8.37)	<b>Sewage Sludge from City Water Treatment</b>					
	170	41.3	1310	3.03	8.80	1.70	(0.695)	0.781	(0.414)	0.881	1.02	(11.1)						

CRM	Al	B	Ba	Cd	Co	K	Mg	Mn	Pb	Na	Sr	Ni	Cu	Ca	Cr	Zn	<b>70 g</b>	
2 GI	0.30	0.03	0.03	0.001	0.002	0.14	1.1	0.14	0.63	0.7	0.033	(2.7)	(4.4)	(6.4)	(3.8)	(2.1)	<b>Galvanischschlamm Galvanic Sludge</b>	

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	H <sub>2</sub> O+	C(org)	CO <sub>2</sub>	ppm Ag	ppm As	ppm B	ppm Ba	ppm Be	ppm Bi	ppm Br
GB 07401	62.60	14.18	5.19	(1.27)	1.81	1.72	1.66	2.59	(4.99)	1.80	(1.13)	0.35	33.5	50	590	2.5	1.17	2.9
GB 07402	73.35	10.31	3.52	0.57	1.04	2.36	1.62	2.54	(2.86)	0.49	(0.97)	0.054	1.37	36	930	1.8	0.38	4.5
GB 07403	74.72	12.24	2.00	0.50	0.58	1.27	2.71	3.04	(1.91)	0.50	(0.13)	0.091	4.4	23	1210	1.4	0.17	4.3
GB 07404	50.95	23.45	10.30	(0.41)	0.49	0.26	0.11	1.03	(10.13)	0.62	(0.12)	0.070	58	97	213	1.85	1.04	4.0
GB 07405	52.57	21.58	12.62	(0.22)	0.61	(0.095)	0.122	1.50	(8.81)	(0.32)	(0.096)	4.4	412	53	296	2.0	41	(1.8)
GB 07406	56.93	21.23	8.09	(0.57)	0.34	0.22	0.19	1.70	(8.90)	0.81	(0.084)	0.20	220	57	118	4.4	49	(7.2)
GB 07407	32.69	29.26	18.76	(1.05)	0.26	0.16	0.074	0.20	(13.73)	0.64	(0.11)	0.057	4.8	(10.5)	180	2.8	0.20	5.2
GB 07408	58.61	11.92	4.48	1.22	2.38	8.27	1.72	2.42	(3.28)	(0.31)	(5.97)	0.060	12.7	54	480	1.9	0.30	(2.6)
	ppm Cd	ppm Ce	ppm Cl	ppm Co	ppm Cr	ppm Cs	ppm Cu	ppm Dy	ppm Er	ppm Eu	ppm F	ppm Ga	ppm Gd	ppm Ge	ppm Hf	ppm Ho	ppm I	ppm In
	4.3	70	(78)	14.2	62	9.0	21	4.6	2.6	1.0	506	19.3	4.6	1.34	6.8	0.87	1.9	0.081
	0.071	402	(63)	8.7	47	4.9	16.3	4.4	2.1	3.0	2240	12	7.8	1.2	5.8	0.93	1.8	0.091
	0.059	39	(57)	5.5	32	3.2	11.4	2.6	1.5	0.72	246	13.7	2.9	1.17	6.8	0.53	(1.3)	0.031
	0.35	136	(36)	22.3	370	21.4	40.5	6.6	4.5	0.85	540	30.6	4.7	1.91	14	1.46	9.4	0.12
	0.45	91	(78)	12.3	118	15.0	144	3.7	2.4	0.82	603	31.7	3.5	2.6	8.1	0.80	3.8	4.1
	0.13	66	98	7.6	75	10.8	390	3.3	2.2	0.66	906	29.5	3.4	3.2	7.5	0.69	19.4	0.84
	0.080	98	100	97	410	2.7	97	6.6	2.7	3.4	321	39.3	9.6	1.6	7.7	1.1	19.3	0.10
	0.13	66	(68)	12.7	68	7.5	24.3	4.8	2.8	1.2	577	14.8	5.4	1.27	7.0	0.97	1.6	(0.043)
	ppm La	ppm Li	ppm Lu	ppm Mn	ppm Mo	ppm Nb	ppm Nd	ppm Ni	ppm P	ppm Pb	ppm Pr	ppm Rb	ppm S	ppm Sb	ppm Sc	ppm Se	ppm Sm	ppm Sn
	34	35.3	0.41	1760	1.4	16.6	28	20.4	735	98	7.5	140	310	0.87	11.2	0.14	5.2	6.1
	164	22	0.32	510	0.98	27	210	19.4	446	20.2	57	88	210	1.3	10.7	0.16	18	3.0
	21	18.4	0.29	304	0.30	9.3	18.4	12.2	320	26	4.8	85	120	0.45	5.0	0.094	3.3	2.5
	53	55.4	0.75	1420	2.6	37.6	27.3	64.2	695	58.5	8.4	75	180	6.3	20.2	0.64	4.4	5.7
	35.7	56	0.42	1360	4.6	22.6	24	40	390	552	7.0	117	410	35.4	17.2	1.56	4.0	17.7
	30	36	0.42	1450	18	26.8	21	53	303	314	5.8	237	260	60	15.5	1.34	3.8	72
	46	19.5	0.35	1780	2.9	64	45	276	1150	13.6	11	15.8	250	0.42	28	0.32	10.8	3.6
	35.5	35.5	0.43	650	1.16	15	32	31.5	775	21	8.3	96	120	1.04	11.7	0.12	5.9	2.8
	ppm Sr	ppm Ta	ppm Tb	ppm Te	ppm Th	ppm Ti	ppm Tl	ppm Tm	ppm U	ppm V	ppm W	ppm Y	ppm Yb	ppm Zn	ppm Zr	LOI	70 g	
	155	1.4	0.75	(0.051)	11.6	4830	1.0	0.42	3.3	86	3.1	25	2.66	680	245	(8.59)	<b>Böden</b>	
	187	(0.8)	0.97	(0.035)	16.6	2710	0.62	0.42	1.45	62	1.08	21.7	1.97	42.3	219	4.4	<b>Soils</b>	
	380	(0.8)	0.49	0.040	6.0	2240	(0.48)	0.28	1.26	36.5	0.95	15	1.68	31.4	246	2.67		
	77	3.1	0.94	(0.15)	27.3	10800	0.94	0.70	6.7	147	6.2	39	4.8	210	500	(10.9)		
	41.5	1.8	0.69	(4.0)	22.7	6290	1.6	0.41	6.5	166	33.5	21	2.8	494	272	(9.1)		
	39	5.3	0.61	(0.42)	23	4390	2.4	0.40	6.7	130	89.5	18.8	2.7	96.6	220	(10.0)		
	26	3.9	1.3	-	9.1	20200	(0.21)	0.42	2.2	245	1.23	26.6	2.4	142	318	(14.3)		
	236	1.05	0.89	0.046	11.8	3800	0.59	0.46	2.7	81.4	1.7	26	2.8	68	229	9.12		

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	ppm Ag	ppm As	ppm B	ppm Ba	ppm Be	ppm Bi	ppm Cd	ppm Ce	ppm Co	ppm Cr	ppm Cs
GB 07409	73.28	12.91	2.08	0.49	1.35	3.31	3.37	0.067	2.9	13.8	693	2.1	0.10	0.068	58.9	4.9	26.4	3.3
GB 07410	65.64	14.55	4.60	1.25	1.42	1.90	2.59	0.11	10.5	38.3	623	2.6	0.37	0.090	76.6	12.8	66.0	7.9
GB 07411	47.96	12.04	7.97	3.71	4.33	1.10	2.03	5.4	205	63.9	550	2.3	1.7	28.2	66.3	11.6	59.6	9.3
	ppm Cu	ppm Dy	ppm Eu	ppm F	ppm Ga	ppm Gd	ppm Ge	ppm Hg	ppm La	ppm Li	ppm Lu	ppm Mn	ppm Mo	ppm Nb	ppm Nd	ppm Ni	ppm P	ppm Pb
	4.9	3.2	0.97	215	14.6	3.9	1.2	0.015	31.3	14.3	0.27	262	0.43	13.0	26.0	9.3	318	16.3
	23.2	(5.3)	1.2	438	18.8	5.6	(1.6)	0.066	37.6	33.2	0.46	706	0.84	17.1	34.4	27.6	439	29.2
	65.4	(4.4)	1.1	624	17.3	4.6	(1.3)	0.150	32.8	29.4	0.36	9700	1.5	15.1	27.4	24.2	1400	2700
	ppm Rb	ppm Sb	ppm Sc	ppm Se	ppm Sm	ppm Sn	ppm Sr	ppm Tb	ppm Th	Ti	ppm Tl	ppm Tm	ppm U	ppm V	ppm W	ppm Y	ppm Yb	ppm Zn
	97.4	0.21	4.8	(0.044)	4.9	1.4	270	0.55	8.4	0.25	0.58	0.28	1.6	34.7	0.98	16.9	1.8	34.2
	109	0.93	11.4	0.28	6.6	4.2	188	0.85	12.0	0.46	0.62	0.48	2.4	82.7	5.0	27.4	3.1	72.8
	111	9.2	11.0	0.51	5.4	64.3	130	0.70	12.6	0.41	(1.7)	0.40	3.3	88.5	6.9	24.2	2.5	3800
	ppm Zr	ppm Br	ppm Cl	ppm Er	ppm Ho	ppm I	ppm In	N	ppm Pr	ppm S	ppm Te	50 g						
	300	(1.2)	(57.4)	(1.8)	(0.66)	(0.44)	(0.032)	(0.052)	(7.1)	(97.0)	(0.024)	<b>Böden</b>						
	337	(5.0)	(45.6)	(2.9)	(1.1)	(2.6)	(0.07)	(0.12)	(8.8)	(174)	(0.035)	<b>Soils</b>						
	192	(3.1)	(101)	(2.4)	(0.88)	(2.6)	(0.38)	(0.32)	(7.5)	(999)	(0.055)							
CRM	Al	Ca	Fe	F	Mg	Na	P	Si	Ti	N	ppm As	ppm Be	ppm Cd	ppm Co	ppm Ce	ppm Cr	ppm Cu	ppm Eu
GB 08302	7.11	2.59	3.34	2.12	1.53	1.52	0.86	30.57	0.40	0.128	3.8	2.96	0.081	13.1	83.6	60.8	24.6	1.4
	ppm La	ppm Mn	ppm Nd	ppm Ni	ppm Pb	ppm Rb	ppm Sc	ppm Se	ppm Sm	ppm Sr	ppm Th	ppm U	ppm V	ppm Zn	ppm Yb	ppm Ba	ppm Br	ppm Cs
	41.9	677	42.3	31.1	14.2	135	10.8	0.16	7.1	163	17.6	3.84	77.5	58.0	3.1	(509)	(1.3)	(7.3)
	ppm Dy	ppm Hf	ppm Hg	ppm Lu	ppm Sb	ppm Ta	ppm Tb	15 g										
	(5)	(7.3)	(0.018)	(0.48)	(0.4)	(1.1)	(0.9)	<b>Tibetboden; Tibet Soil</b>										
CRM	Si	Al	Fe	K	Ca	Na	Ti	Mg	P	Mn	ppm Ba	ppm Sr	ppm Zn	ppm Rb	ppm V	ppm Pb	ppm Cr	ppm Co
T SO2	24.99	8.07	5.56	2.45	1.96	1.90	0.86	0.54	0.30	0.072	966	340	124	78	64	21	16	9
T SO3	15.86	3.06	1.51	1.16	14.63	0.74	0.20	4.98	0.048	0.052	296	217	52	39	38	14	26	8
	ppm Ni	ppm Cu	ppm Hg	200 g														
	8	7	0.082	<b>Böden</b>														
	16	17	0.017	<b>Soils</b>														



CRM	As	Be	Co	Cu	Mo	Ni	Pb	Sn	Zn	Cd	Hg	Se	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	B
VS 2499-83	0.0017	0.0010	0.0045	0.010	0.0007	0.0087	0.0087	0.0019	0.014	0.00013	0.000013	(0.00008)	91.24	0.29	3.36	0.99	0.011	0.003
VS 2500-83	0.007	0.0025	0.013	0.026	0.0012	0.029	0.025	0.006	0.043	0.0004	0.00003	(0.00008)	91.24	0.29	3.36	0.99	0.011	0.003
	Ba	Ce	Cr	Cs	Sc	Sr	V	Y	Yb	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	Ga	La	Li	Nd
	0.031	0.0017	0.010	0.00016	0.00026	0.0069	0.0014	0.0013	0.00015	0.27	0.13	1.23	0.51	0.036	0.0005	0.0010	0.00035	0.0012
	0.031	0.0017	0.010	0.00016	0.00026	0.0069	0.0014	0.0013	0.00015	0.27	0.13	1.23	0.51	0.036	0.0005	0.0010	0.00035	0.0012
	Rb	Zr	Se	LOI	100 g													
	0.0032	0.035	(0.00008)	1.48	<b>Sandboden mit Torfasche</b>													
	0.0032	0.035	(0.00008)	1.48	<b>Turf-Ash Bearing Sandy Soil</b>													

CRM	As	Be	Co	Cu	Mo	Ni	Pb	Sn	Zn	Cd	Hg	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	CaO	S
VS 2507-83	0.0008	0.00020	0.0009	0.0025	0.00012	0.0032	0.0018	0.0003	0.0056	0.000010	0.000005	71.49	0.74	9.81	3.48	0.079	1.60	0.05
VS 2508-83	0.0021	0.0009	0.0046	0.011	0.0006	0.011	0.009	0.0020	0.018	0.00018	0.000021	71.49	0.74	9.81	3.48	0.079	1.60	0.05
VS 2509-83	0.004	0.0024	0.013	0.027	0.0011	0.030	0.026	0.006	0.046	0.00045	0.00004	71.49	0.74	9.81	3.48	0.079	1.60	0.05
	B	Ba	Ce	Cr	Cs	Nb	Rb	Sc	Sr	V	Y	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	F	Ga	La
	0.0056	0.050	0.007	0.0083	0.0004	0.0014	0.0088	0.0011	0.011	0.0072	0.0031	0.95	2.42	0.81	0.18	0.028	0.0011	0.0036
	0.0056	0.050	0.007	0.0083	0.0004	0.0014	0.0088	0.0011	0.011	0.0072	0.0031	0.95	2.42	0.81	0.18	0.028	0.0011	0.0036
	0.0056	0.050	0.007	0.0083	0.0004	0.0014	0.0088	0.0011	0.011	0.0072	0.0031	0.95	2.42	0.81	0.18	0.028	0.0011	0.0036
	Li	Yb	Zr	Se	LOI	100 g												
	0.0023	0.00041	0.047	(0.0003)	8.26	<b>Schwarzer Boden</b>												
	0.0023	0.00041	0.047	(0.0003)	8.26	<b>Black Soil</b>												
	0.0023	0.00041	0.047	(0.0003)	8.26													

CRM	Pt	Pd	Au	Ru	Os	Ir	Rh	500 g										
GC GPt1	0.00026	0.00026	0.0009	(0.00005)	(0.00005)	(0.00003)	(0.00002)	<b>Lößboden, Pt-Elementgruppe; Loess, Pt-Element Group</b>										

CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	MnO	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	Cr <sub>2</sub> O <sub>3</sub>	Ba	Ce	Co	Cu	Ga
X 42	74.09	10.03	4.68	(4.0)	1.92	0.89	(0.15)	0.45	0.10	0.36	(0.04)	0.63	(0.0250)	(0.0030)	0.0035	0.0017	(0.0012)
	Mo	Nb	Ni	Pb	Rb	S	Sr	Th	V	Y	Zn	Zr	100 g				
	(0.0005)	(0.0008)	0.0125	(0.0010)	0.0022	(0.02)	0.0037	(0.0005)	0.0094	0.0011	0.0044	0.0192	<b>Boden; Soil</b>				

CRM	ppm As	ppm Ba	Ca	ppm Cd	ppm Co	ppm Cr	ppm Cu	Fe	ppm Hg	K	ppm Mn	ppm Ni	ppm Pb	ppm Sb	ppm Sr	ppm V	ppm Zn	ppm Ag
IR SVM	13.6	582	0.692	0.214	15.4	79.8	30.0	3.73	0.171	3.08	897	30.8	19.6	4.58	82.0	98.3	88.8	(4)
IR SSP	14.0	315	6.34	0.285	15.6	75.3	30.9	3.73	0.0874	2.63	734	37.4	41.3	2.11	274	89.7	119	(5)
IR SMS	9.36	(365)	0.490	0.198	11.9	87.4	21.2	2.70	0.0785	1.85	910	40.0	18.9	1.92	107	(87.5)	63.7	(1)

Al	ppm B	ppm Be	ppm Br	ppm Ce	ppm Cs	ppm Dy	ppm Eu	ppm Gd	ppm Hf	ppm La	ppm Li	ppm Lu	Mg	Na	ppm Nd
8.96	(70)	(500)	(5)	(100)	(6)	(5)	(2)	(7)	(10)	(60)	(30)	(500)	0.593	(0.3)	(50)
7.48	(70)	(2)	(5)	(75)	(12)	(4)	(1)	(7)	(10)	(40)	(60)	(500)	1.19	(0.45)	(40)
5.77	(50)	(1)	(4)	(100)	(5)	(5)	(1)	(10)	(10)	(40)	(20)	(500)	0.627	(0.8)	(40)

ppm P	ppm Rb	ppm Sc	ppm Se	Si	ppm Sm	ppm Ta	ppm Tb	ppm Th	Ti	ppm Tl	ppm U	ppm W	ppm Yb	ppm Zr	50 g
(0.13)	(200)	(15)	(300)	25	(10)	(1)	(1)	(20)	0.55	(<200)	(3)	(3)	(4)	(350)	<b>Böden</b>
(0.14)	(150)	(10)	(150)	20	(5)	(1)	(1)	(10)	0.38	(<200)	(4)	(2)	(2)	(200)	<b>Soils</b>
(0.10)	(100)	(10)	(200)	31	(7)	(1)	(1)	(10)	0.5	(<200)	(3)	(2)	(4)	(500)	

CRM	Al	Ca	Fe	K	Mg	Na	P	Ti	Si	ppm As	ppm Cd	ppm Co	ppm Cr	ppm Cu	ppm Hg	ppm Mn	ppm Ni	ppm Pb
GB 08303	6.86	4.79	2.97	1.57	1.30	1.10	0.160	0.36	(25.9)	10.6	1.20	13.0	112	120	2.15	519	40	73

ppm Th	ppm Sr	ppm Zn	ppm Ba	ppm Be	ppm La	ppm Mo	ppm Sc	ppm Se	ppm U	ppm Rb	20 g
11.6	405	260	(724)	(2.5)	(40)	(3.3)	(10)	(1.0)	(3.2)	(68)	<b>Ackerboden, verunreinigt; Polluted Farmland Soil</b>

RM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	Fe <sub>2</sub> O <sub>3</sub> (tot)	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	H <sub>2</sub> O+	C(tot)	S(tot)	LOI
JG JSO-1	38.37	1.23	18.06	8.58	2.52	11.38	0.197	2.11	2.55	0.67	0.34	0.48	7.88	8.91	0.20	33.49
JG JSO-2	42.24	1.14	21.34	7.99	2.21	10.44	0.175	1.66	1.09	1.03	1.55	0.15	8.57	4.06	0.18	23.58

ppm As	ppm B	ppm Ba	ppm Be	ppm Co	ppm Cr	ppm Cs	ppm Cu	ppm In	ppm Li	ppm Ni	ppm Pb	ppm Rb	ppm Sb	ppm Sr	ppm Te	ppm V
8.1	12.0	267	0.69	32	71	1.5	169	0.086	11.2	39	13	14.5	0.38	196	0.085	300
1076	129	352	109	1071	1118	3.8	1276	10.5	25.7	1070	1087	62.5	106	87	10.7	1345

  

ppm Y	ppm Zn	ppm Zr	100 g
24.9	105	96	<b>Boden</b>
1090	1174	1161	<b>Soil</b>





Bei allen CRM-Proben auf dieser Seite sind nur die Totalgehalte angegeben. Neben diesen sind in den Zertifikaten Extraktionswerte nach KÖNIGSWASSER-Aufschluß und nach anderen Extraktionsverfahren zertifiziert. Einige Elemente sind nur als Extraktionswerte zertifiziert und der Totalwert ist informativ. Zertifikate mit allen Werten und Verfahrensbeschreibungen senden wir auf Anfrage zu.

With all CRM-Soil-Samples on this page only the total content is given. Further to the total values there are certified element fractions extractable by AQUA REGIA and other conventional extraction procedures given in the certificate. Some elements have certified leachate values only and the total values are informative. Please request certificate for details of values and procedures.

CRM	ppm Cd	ppm Cu	ppm Hg	ppm Pb	ppm Zn	ppm Co	ppm Cr	ppm Mn	ppm Ni	ppm Se	40 g
H 141	0.36	32.6	0.0568	29.4	81.3	(9.2)	(75.0)	(547)	(30.9)	(0.160)	<b>Boden; Soil</b> KÖNIGSWASSER-Werte informativ; AQUA REGIA-values informative
H 141R	14.6	46.4	0.25	57.2	283	10.5	195	683	103	-	<b>Boden, lehmig, kalkhaltig; Calcareous Loam Soil</b>
H 142R	0.34	69.7	0.067	40.2	(101)	12.1	(113)	970	64.5	-	<b>Boden, sandig; Light Sandy Soil</b>
H 143R	71.8	130.6	1.10	179.7	1055	12.3	(577)	904	299	(0.6)	<b>Boden, gedüngt mit Abwasserschläm; Sewage Sludge amended soil</b>

CRM	ppm As	ppm Ba	ppm Be	ppm Cd	ppm Co	ppm Cr	ppm Cu	ppm Hg	ppm Mn	ppm Ni	ppm Pb	ppm V	ppm Zn	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	Fe <sub>2</sub> O <sub>3</sub>
AN 7001	(12.3)	(970)	3.32	0.32	9.66	89.6	30.8	0.087	540	31.9	43.8	58.7	120	(65.06)	(15.41)	(1.50)	(1.27)	(4.73)
AN 7002	32.4	(987)	8.77	0.31	12.6	179	29.3	0.090	587	42.0	58.9	54.9	69.0	(66.21)	(14.02)	(1.20)	(1.90)	(3.77)
AN 7003	(16.7)	(495)	2.18	0.32	11.5	79.8	29.1	0.096	600	31.3	33.5	76.2	81.0	(68.80)	(12.30)	(1.38)	(1.02)	(4.15)
AN 7004	49.6	(568)	4.17	1.52	20.0	82.2	183	0.223	869	33.3	93.4	126	227	(64.35)	(13.10)	(2.07)	(1.29)	(5.82)

	K <sub>2</sub> O	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	TiO <sub>2</sub>	80 g
	(3.16)	(2.35)	(0.34)	(0.52)	<b>Sandboden, nicht kontaminiert; Light Sandy Soil, no contamination</b>
	(5.20)	(1.45)	(0.54)	(0.45)	<b>Sandboden, kontaminiert; Light Sandy Soil, contaminated</b>
	(2.21)	(0.74)	(0.16)	(0.68)	<b>Lehmboden, nicht kontaminiert; Silty Clay Loam, no contamination</b>
	(2.55)	(0.72)	(0.45)	(1.32)	<b>Lehmboden, kontaminiert; Loam, contaminated</b>

CRM	Al	Ca	Fe	K	Mg	Na	P	Si	Ti	ppm Ba	ppm Co	ppm Cr	ppm Cu	ppm Dy	ppm Ga	ppm Hf	ppm La	ppm Li
PM BPGM-1	2.29	0.28	0.062	1.30	0.130	0.37	0.045	41.6	(0.185)	283	(2.8)	(26.3)	5.0	(1.7)	(4.7)	(7.0)	13.7	(8.0)
PM PL-1	2.85	0.303	0.820	1.53	0.16	0.51	0.044	40.2	0.32	354	(3.9)	49.6	6.2	(2.8)	6.0	(13.8)	21.5	(10.7)

	ppm Mn	ppm Nb	ppm Nd	ppm Ni	ppm Pb	ppm Sc	ppm Sm	ppm Sr	ppm Th	ppm V	ppm Yb	ppm Zn	ppm Zr	100 g
	238.4	(5.3)	(12.5)	(5.3)	14.2	2.5	(2.0)	53.0	(4.2)	18.7	(1.1)	22.9	278.4	<b>Schwerer lehmhaltiger Sandboden; Heavy Loamy Sand</b>
	394.5	(9.95)	16.4	(7.4)	19.6	(3.8)	(3.4)	67.4	6.3	24.1	(2.0)	30.0	634.4	<b>Lößboden; Loess</b>

Sedimente mit Extraktionswerten nach KÖNIGSWASSER-Aufschluß s. S. 6.12.3 + 6.12.4, Schlämme s. S. 6.12.6  
 Sediments with AQUA REGIA extractable values on page 6.12.3 + 6.12.4, sludges on page 6.12.6

CRM	Al <sub>2</sub> O <sub>3</sub>	BaO	CaO	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	MgO	Na <sub>2</sub> O	PbO	SiO <sub>2</sub>	Li <sub>2</sub> O	Sb <sub>2</sub> O <sub>3</sub>	ZnO	100x100x10 mm + Ø 40x10 mm						
H 126A	0.128	1.036	1.033	0.0055	10.00	0.512	3.58	23.98	57.80	0.495	0.290	1.020	<b>Bleikristallglas; Lead Chrystal Glass</b>						
CRM	Al <sub>2</sub> O <sub>3</sub>	As <sub>2</sub> O <sub>5</sub>	As <sub>2</sub> O <sub>3</sub>	B <sub>2</sub> O <sub>3</sub>	BaO	CaO	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	MgO	MnO	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	PbO	SO <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	ZnO	Cl	
3 89	0.18	0.36	0.03	-	1.40	0.21	0.049	8.40	0.03	0.088	5.70	0.23	17.50	0.03	65.35	0.01	-	0.05	
3 92	-	-	-	0.70	-	(8.3)	-	(0.6)	(0.1)	-	(13.1)	-	-	-	(75.0)	-	(0.2)	-	
3 93a	2.28	-	-	12.56	-	0.01	0.028	0.014	0.005	-	3.98	-	-	-	80.8	0.14	-	0.06	
3 620	1.80	-	0.056	-	-	7.11	0.043	0.41	3.69	-	14.39	-	-	0.28	72.8	0.18	-	-	
3 621	2.76	-	0.030	-	0.12	10.71	0.040	2.01	0.27	-	12.74	-	-	0.13	71.13	0.014	-	-	
3 1830	0.12	-	-	-	-	8.56	0.121	0.04	3.90	-	13.75	-	-	0.26	73.07	0.011	-	-	
3 1831	1.21	-	-	-	-	8.20	0.087	0.33	3.51	-	13.32	-	-	0.25	73.08	0.019	-	-	
3 1411	5.68	-	-	10.94	5.00	2.18	0.050	2.97	0.33	-	10.14	-	-	-	58.04	-	3.85	-	
3 1412	7.52	-	-	4.53	4.67	4.53	(0.031)	4.14	(4.69)	-	4.69	-	4.40	-	42.38	-	4.48	-	
	ZrO <sub>2</sub>	R <sub>2</sub> O <sub>3</sub>	CdO	SrO	LOI														
	0.005	-	-	-	0.32	45 g	<b>Glas, PbBa, Glass, PbBa</b>												
	-	(1.5)	-	-	(0.42)	45 g	<b>Glas, niedr. Bor; Glass, low Boron</b>												
	0.042	-	-	-	-	Ø 32x6 mm	<b>Glas, hoch Bor; Glass, high Boron</b>												
	-	-	-	-	-	35x35x3(x3) mm	<b>Glas, Kalk Soda; Glass, Lime Soda</b>												
	0.007	-	-	-	-	35x35x3(x3) mm	<b>Glas, Kalk Soda; Glass, Lime Soda</b>												
	-	-	-	-	-	38x38x6(x3) mm	<b>Glas, Kalk Soda (float); Glass, Lime Soda (float)</b>												
	-	-	-	-	-	37x37x3(x3) mm	<b>Glas, Kalk Soda (sheet); Glass, Lime Soda (sheet)</b>												
	-	-	-	0.09	-	10 Plättchen	<b>Glas, weich, Borsilikat; Glass, soft, Boron Silicate</b>												
	-	-	4.38	4.55	-	8 Plättchen	<b>Glas, Multikomponent; Glass, Multicomponent</b>												
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	B <sub>2</sub> O <sub>3</sub>	F	LOI	50 g							
GB 03132	53.98	14.50	0.34	0.19	16.54	4.40	0.59	0.096	8.87	0.54	0.26		<b>Borsilikatglas; Boron Silicate Glass</b>						
RM	Al <sub>2</sub> O <sub>3</sub>	B <sub>2</sub> O <sub>3</sub>	CaO	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	MgO	Na <sub>2</sub> O	SO <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	ZnO	PbO	As <sub>2</sub> O <sub>3</sub>	F	LOI 550°C 25 g, Scherben; Fragments				
SG 4G	3.02	0.19	4.24	0.099	0.57	<0.05	15.45	<0.05	69.49	0.041	3.28	-	-	4.96	0.22	<b>Opalglas; Opal Glass</b>			
SG 5G	1.12	-	6.55	0.043	0.42	2.75	15.65	0.21	72.74	0.034	-	-	-	-	-	<b>Glas, Kalksoda; Glass, Lime Soda</b>			
SG 6G	1.70	-	9.97	0.034	<0.1	<0.1	14.65	0.20	73.06	0.02	-	-	-	-	-	<b>Glas, Kalksoda; Glass, Lime Soda</b>			
SG 7G	1.50	-	11.03	0.044	0.43	0.14	13.90	0.19	72.64	0.042	-	-	-	-	0.07	<b>Glas, Kalksoda; Glass, Lime Soda</b>			
SG 8G	0.05	0.36	<0.02	0.010	11.85	<0.02	0.23	-	56.34	0.02	-	30.59	0.32	-	0.21	<b>Glas, K<sub>2</sub>O, PbO; Glass, K<sub>2</sub>O, PbO</b>			
SG 9G	1.4	-	0.1	0.045	8.4	-	4.0	-	56.7	0.03	-	28.4	-	-	0.4	<b>Glas, K<sub>2</sub>O, PbP; Glass, K<sub>2</sub>O, PbO</b>			
RM	Al <sub>2</sub> O <sub>3</sub>	CaO	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	MgO	Na <sub>2</sub> O	SO <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	ca./approx. 75x75x6 mm									
GI EC1.1	1.08	8.63	0.103	0.59	3.78	13.41	0.24	71.97	0.040	<b>Floatglas; Float Glass</b>									

CRM	ppm Sb	ppm Ba	ppm B	ppm Cd	ppm Ce	ppm Co	ppm Cu	ppm Dy	ppm Er	ppm Eu	ppm Gd	ppm Ga	ppm Au	ppm Fe	ppm La	ppm Pb	ppm Mn
3 610	-	-	(351)	-	-	(390)	(444)	-	-	-	-	-	(25)	458	-	426	485
3 611	-	-	(351)	-	-	(390)	(444)	-	-	-	-	-	(25)	458	-	426	485
3 612	-	(41)	(32)	-	(39)	(35.5)	(37.7)	(35)	(39)	(36)	(39)	-	(5)	51	(36)	38.57	(39.6)
3 613	-	(41)	(32)	-	(39)	(35.5)	(37.7)	(35)	(39)	(36)	(39)	-	(5)	51	(36)	38.57	(39.6)
3 614	(1.06)	-	(1.30)	(0.55)	-	(0.73)	1.37	-	-	(0.99)	-	(1.3)	(0.5)	(13.3)	(0.83)	2.32	-
3 616	(0.078)	-	(0.20)	-	-	-	(0.80)	-	-	-	-	(0.23)	(0.18)	(11)	(0.034)	1.85	-
3 617	(0.078)	-	(0.20)	-	-	-	(0.80)	-	-	-	-	(0.23)	(0.18)	(11)	(0.034)	1.85	-

ppm Nd	ppm Ni	ppm K	ppm Rb	ppm Sm	ppm Sc	ppm Ag	ppm Sr	ppm Ta	ppm Th	ppm Ti	ppm U	ppm Y	ppm Zn	SiO <sub>2</sub>	CaO
-	458.7	(461)	425.7	-	-	(254)	515.5	(61.8)	457.2	(437)	461.5	-	(433)	(72)	(12)
-	458.7	(461)	425.7	-	-	(254)	515.5	(61.8)	457.2	(437)	461.5	-	(433)	(72)	(12)
(36)	38.8	(64)	31.4	(39)	-	22.0	78.4	(15.7)	37.79	(50.1)	37.38	(42)	-	(72)	(12)
(36)	38.8	(64)	31.4	(39)	-	22.0	78.4	(15.7)	37.79	(50.1)	37.38	(42)	-	(72)	(12)
-	(0.95)	30	0.855	-	(0.59)	0.42	45.8	(0.269)	0.748	(3.1)	0.823	-	-	(72)	(12)
-	-	29	(0.100)	-	(0.026)	-	41.72	(0.0082)	0.0252	(2.5)	0.0721	-	-	(72)	(12)
-	-	29	(0.100)	-	(0.026)	-	41.72	(0.0082)	0.0252	(2.5)	0.0721	-	-	(72)	(12)

Na<sub>2</sub>O Al<sub>2</sub>O<sub>3</sub> Ø 16 mm

(14)	(2)	6 Wafers/3 mm	Glas, Spuren
(14)	(2)	6 Wafers/1 mm	Glass, traces
(14)	(2)	6 Wafers/3 mm	
(14)	(2)	6 Wafers/1 mm	
(14)	(2)	6 Wafers/3 mm	
(14)	(2)	6 Wafers/3 mm	
(14)	(2)	6 Wafers/1 mm	

CRM	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	50 g
GB 03117	71.25	0.057	2.56	0.18	6.37	3.98	1.10	13.77	Si-Glas; Si-Glass

CRM	SiO <sub>2</sub>	Na <sub>2</sub> O	CaO	MgO	Al <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	SO <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	BaO	ZrO <sub>2</sub>	Cr <sub>2</sub> O <sub>3</sub>	Ø ca. 40x4 mm + 100 g, pulverisiert, powdered
SV RMI	72.4	13.50	8.61	3.99	0.61	0.30	0.24	0.042	0.037	(0.014)	(0.012)	(0.0009)	Flachglas; Flat Glass - Float
SV RMII	72.7	15.11	6.03	4.12	1.03	0.57	0.33	0.049	0.035	0.016	(0.0082)	(0.001)	Flachglas; Flat Glass - Fourcault
SV RMIII	70.1	13.30	9.89	2.82	2.13	0.94	0.15	0.29	0.047	0.061	(0.013)	(0.11)	Flaschenglas, grün; Green Container Glass
SV RMIV	71.8	13.42	7.33	4.74	1.50	0.70	0.038	0.30	0.033	(0.025)	(0.0087)	0.004	Flaschenglas, braun; Amber Container Glass

CRM	SiO <sub>2</sub>	B <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	MgO	CaO	BaO	PbO	ZnO	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	As <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	F	100 g + Ø 30x4 mm + 40x4 mm
SV 4001	69.55	1.09	5.73	10.43	1.11	1.80	0.014	6.53	(0.0021)	1.87	0.038	0.43	0.023	(0.0025)	(0.012)	(0.85)	Pb-Glas/Glass
SV 4002	66.07	0.84	2.57	13.53	0.021	2.77	1.07	10.76	1.043	0.15	0.038	0.43	0.023	(0.0011)	(0.033)	(0.56)	
SV 4003	59.49	(0.020)	1.85	12.34	0.006	0.014	(0.0063)	23.97	1.55	0.12	0.017	0.16	0.019	(0.0007)	(0.025)	(0.42)	

RM	Li <sub>2</sub> O	B <sub>2</sub> O <sub>3</sub>	F	Na <sub>2</sub> O	MgO	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	SO <sub>3</sub>	Cl	K <sub>2</sub> O	CaO	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	ZnO	As <sub>2</sub> O <sub>3</sub>	SrO	ZrO <sub>2</sub>
BR 1/S	0.000	0.000	0.000	14.680	4.450	1.160	71.910	0.000	0.450	0.050	0.660	6.560	0.035	0.110	0.000	0.000	0.000	0.000
BR 25/S	0.000	0.000	0.000	2.350	0.002	0.150	58.020	0.000	0.080	0.000	11.470	0.015	0.000	0.014	0.000	0.470	0.058	0.000
	CdO	Sb <sub>2</sub> O <sub>3</sub>	BaO	La <sub>2</sub> O <sub>3</sub>	CeO <sub>2</sub>	PbO	Ø 40x3-5 mm											
	0.000	0.000	0.000	0.000	0.000	0.000	Flachglas; Float Glass											
	0.000	0.000	2.240	0.000	0.000	24.740	Bleiglas; Lead Cristal Glass											
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	Cr <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	MgO	Na <sub>2</sub> O	TiO <sub>2</sub>	ZrO <sub>2</sub>	LOI	75 g						
3 81a	-	0.66	-	0.0046	0.082	-	-	-	0.12	0.034	-	Glassand, hoch Fe; Glass Sand, high Fe						
3 165a	-	0.059	-	(0.00011)	0.012	-	-	-	0.011	0.006	-	Glassand, niedr. Fe; Glass Sand, low Fe						
3 1413	82.77	9.90	0.74	-	0.24	3.94	0.06	1.75	0.11	-	0.12	Glassand, hoch Al <sub>2</sub> O <sub>3</sub> ; Glass Sand, high Al <sub>2</sub> O <sub>3</sub>						
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	MgO	Na <sub>2</sub> O	TiO <sub>2</sub>	ZrO <sub>2</sub>	LOI	100 g							
IP 61	99.79	0.054	0.004	0.014	(0.007)	0.003	(0.002)	0.026	0.010	(0.06)	Glassand							
IP 62	99.62	0.11	0.004	0.072	(0.007)	0.004	(0.002)	0.036	0.010	0.10	Glass Sand							
CRM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	Ce	Co	Eu	La	Li	Sc	Th	LOI	100 g	
UN SpS	99.32	0.248	0.037	0.035	0.0071	0.029	0.045	0.058	0.0006	0.000048	0.0000066	0.000242	0.00053	0.000027	0.000104	0.167	Glassand; Glass Sand	
RM	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	Cr <sub>2</sub> O <sub>3</sub>	LOI	200 g							
SG 1	99.74	0.061	0.014	0.026	<0.02	<0.02	<0.02	<0.02	0.0003	0.12	Glassand		Reinquarz + Silikasteine siehe Seite 6.4.6					
SG 6	98.66	0.60	0.032	0.024	<0.02	<0.02	<0.02	0.40	-	0.14	Glass Sand		Pure Quartz + Silica Bricks see page 6.4.6					
SG 8	95.63	2.07	0.26	0.073	0.06	0.12	0.20	1.06	-	0.48								
SG 9	97.24	1.35	0.103	0.044	0.02	0.06	0.10	0.82	-	0.24								

Synthetische Glasprobe zur Kalibrierung von RFA-Spektrometern für die Analyse von Gesteinen, Erzen und Ton, sowie als Rekalibrier- oder Monitorprobe

Synthetic glass standard for calibrating XRF-spectrometers for the analysis of rocks, ores and clays, or as quality control standard for monitoring instrument stability

CRM	Al	Ba	Ca	Fe	Mg	P	K	Si	Sr	Ti	Ø 30x3 mm
3 1834	20.71	0.062	0.095	0.32	0.088	0.152	0.42	20.19	0.153	1.11	

Spezial-Silikatglasproben für die Rekalibrierung und Kontrolle von RFA-Spektrometern

Silica glasses of special composition for XRF-spectrometer recalibration and control

RM	B <sub>2</sub> O <sub>3</sub>	F	Na <sub>2</sub> O	MgO	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	CaO	TiO <sub>2</sub>	V <sub>2</sub> O <sub>5</sub>	Cr <sub>2</sub> O <sub>3</sub>	MnO	Fe <sub>2</sub> O <sub>3</sub>	CoO	NiO	CuO	ZnO
BR A4	4.2	0.17	0.13	3.2	15.8	36.52	0.56	2.16	0.83	3.9	0.01	0.15	20.3	1.16	-	-	-	7.4
BR B2	-	1.4	0.09	0.23	8.6	42.0	2.1	0.04	21.0	1.2	-	-	0.89	12.3	1.62	0.79	0.25	0.45
BR C3	19.1	-	7.9	-	27.1	9.9	15.6	6.9	0.03	0.10	0.26	-	0.47	5.4	-	0.29	-	-
BR D3	22.2	-	9.6	7.4	20.0	5.5	5.8	0.09	14.4	0.03	0.86	-	-	0.58	-	-	-	3.7
BR E3	4.0	1.3	15.3	-	8.5	48.9	-	0.95	0.60	0.02	-	0.56	6.5	0.03	0.74	1.85	0.82	0.92
BR F3	2.0	5.0	1.2	0.82	3.85	56.36	-	18.3	2.84	0.04	1.7	0.27	-	0.07	0.25	-	1.8	-
	Ga <sub>2</sub> O <sub>3</sub>	GeO <sub>2</sub>	As <sub>2</sub> O <sub>3</sub>	Rb <sub>2</sub> O	SrO	Y <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Nb <sub>2</sub> O <sub>5</sub>	MoO <sub>3</sub>	Ag <sub>2</sub> O	CdO	In <sub>2</sub> O <sub>3</sub>	SnO <sub>2</sub>	Sb <sub>2</sub> O <sub>3</sub>	TeO <sub>2</sub>	Cs <sub>2</sub> O	BaO	La <sub>2</sub> O <sub>3</sub>
	-	0.08	-	0.04	0.71	-	0.15	-	-	-	0.39	0.04	-	-	0.04	0.04	2.0	-
	-	-	-	-	0.008	-	-	-	-	-	-	-	0.92	-	0.08	-	0.04	-
	-	0.27	0.78	-	-	-	-	0.60	2.0	-	0.16	-	-	-	-	-	1.0	-
	0.46	0.41	1.86	-	0.13	-	0.34	-	0.87	-	-	-	-	1.85	-	-	-	0.88
	-	-	0.44	-	0.31	0.18	-	0.05	-	0.13	-	0.09	0.60	0.43	0.03	-	4.6	0.40
	0.09	-	-	0.16	-	0.45	0.74	0.38	-	-	0.96	0.26	0.20	0.86	-	0.13	0.34	-
	Ce <sub>2</sub> O <sub>3</sub>	Pr <sub>2</sub> O <sub>3</sub>	Nd <sub>2</sub> O <sub>3</sub>	Sm <sub>2</sub> O <sub>3</sub>	Ta <sub>2</sub> O <sub>5</sub>	WO <sub>3</sub>	PbO	Bi <sub>2</sub> O <sub>3</sub>	Ø 40x5 mm + Ø 32x5 mm									
	-	-	-	-	-	-	-	-										
	-	-	-	-	0.85	1.85	4.4	-										
	-	0.20	0.46	-	-	0.90	-	0.50										
	0.84	-	-	-	-	0.32	1.7	0.18										
	-	-	-	-	0.05	-	0.45	0.08										
	0.39	-	-	0.18	0.36	-	-	-										

SUS	B <sub>2</sub> O <sub>3</sub>	F	Na <sub>2</sub> O	MgO	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	CaO	TiO <sub>2</sub>	V <sub>2</sub> O <sub>5</sub>	Cr <sub>2</sub> O <sub>3</sub>	MnO	Fe <sub>2</sub> O <sub>3</sub>	CoO	NiO	CuO	ZnO
BR AS1	3.22	0.17	0.13	3.20	15.80	38.90	0.58	2.16	0.83	3.90	0.01	0.15	20.30	1.16	-	-	-	7.40
BR BS1	-	1.40	0.09	12.00	6.75	31.40	2.10	0.04	21.40	1.20	-	-	0.89	12.30	1.62	0.79	0.10	0.10
BR CS1	19.23	-	7.90	-	27.10	11.30	15.60	6.90	0.03	0.10	0.26	-	0.47	5.40	-	0.29	-	-
BR DS1	23.62	-	9.60	7.40	20.00	6.60	5.80	0.09	14.40	0.03	0.86	-	-	0.58	-	-	-	3.70
BR ES1	1.10	1.30	14.60	-	13.20	48.30	-	2.70	0.60	0.80	0.20	0.56	6.20	0.03	0.74	1.85	0.25	0.15
BR FS1	1.48	5.00	1.20	0.82	3.85	59.60	-	18.40	2.84	0.04	1.70	0.27	-	0.07	0.25	-	1.80	-
	Ga <sub>2</sub> O <sub>3</sub>	GeO <sub>2</sub>	As <sub>2</sub> O <sub>3</sub>	Rb <sub>2</sub> O	SrO	Y <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Nb <sub>2</sub> O <sub>5</sub>	MoO <sub>3</sub>	Ag <sub>2</sub> O	CdO	In <sub>2</sub> O <sub>3</sub>	SnO <sub>2</sub>	Sb <sub>2</sub> O <sub>3</sub>	TeO <sub>2</sub>	Cs <sub>2</sub> O	BaO	La <sub>2</sub> O <sub>3</sub>
	-	0.08	0.05	0.04	0.71	-	0.15	-	-	-	0.39	0.04	-	-	0.04	0.04	-	-
	-	-	0.05	-	0.008	-	-	0.60	-	-	-	-	0.20	-	0.08	-	0.04	-
	-	0.27	0.78	-	-	-	-	-	2.00	-	0.16	-	-	-	-	-	1.00	-
	0.46	-	-	-	0.13	-	0.34	-	0.87	-	-	-	-	1.85	-	-	-	0.88
	-	-	0.20	-	0.31	0.18	-	0.05	-	0.13	-	0.09	0.60	0.43	0.03	-	4.60	0.40
	0.09	-	-	0.16	-	0.45	0.74	0.38	-	-	0.20	0.26	0.20	0.25	-	0.13	0.34	-
	Ce <sub>2</sub> O <sub>3</sub>	Pr <sub>2</sub> O <sub>3</sub>	Nd <sub>2</sub> O <sub>3</sub>	Sm <sub>2</sub> O <sub>3</sub>	Ta <sub>2</sub> O <sub>5</sub>	WO <sub>3</sub>	PbO	Bi <sub>2</sub> O <sub>3</sub>	ThO <sub>2</sub>	UO <sub>3</sub>	F <sub>corr</sub>	Ø 40x5 mm + 32x5 mm						
	-	-	-	-	-	-	0.50	-	0.04	0.01	0.07							
	-	-	-	-	-	1.85	4.40	-	-	-	0.59							
	-	0.20	0.46	-	-	0.05	-	0.50	-	-	-							
	0.84	-	-	-	-	0.05	1.70	-	0.18	-	-							
	-	-	-	-	0.05	-	0.30	0.08	0.44	-	0.55							
	0.39	-	-	0.18	0.36	-	0.05	-	0.33	0.27	2.10							

**Hinweis:**

Wir fertigen Monitorproben (SUS-Proben) aus Glas (Silikatgläser) mit höchster Stabilität: Strahlungsfestigkeit, mechanische, chemische, thermische und hygroskopische Resistenz, keine Oxidation, einfache Reinigung mit Wasser oder Alkohol; ideal zur Überwachung der Langzeitstabilität des Röntgenspektrometers. Individuelle Proben ab EUR 400,-/2 St., bitte fragen Sie an.

**Note:**

We manufacture Monitor-Samples (SUS) from glass (silicate glasses) with unsurpassed stability: radiation, mechanical, chemical, thermal and hygroscopic resistance, no oxidation, easy to clean with water or alcohol, ideal for monitoring long term XRF-spectrometer stability. Individual samples from EUR 400,-/pair of two samples, please inquire.

Spezial-Silikatglasproben für die Rekalibrierung und Kontrolle von RFA-Spektrometern

Silica glasses of special composition for XRF-spectrometer recalibration and control

SUS	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	B <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	MgO	CaO	BaO	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	ZnO	CuO	NiO	CoO	PbO	Cr <sub>2</sub> O <sub>3</sub>	
SV A2	37	12	3.5	0.3	2.5	3.5	0.7	-	0.4	-	32	6.6	-	-	-	-	-	
SV B1	51	-	-	-	-	-	25	-	19	3	-	-	0.5	1	-	-	-	
SV C1	10	35	22.5	9	1	-	-	1	5	-	0.5	-	-	-	-	-	-	
SV D1	3	16	26	10	-	9	15	-	0.5	-	-	5	-	-	-	1	-	
SV E1	51	1.5	6	15	2.5	-	5	3	-	-	5	2	1	0.5	1	-	4	
SV F1	59	2	3	1	20	1	3	0.3	-	-	-	0.2	-	-	0.5	-	-	
	P <sub>2</sub> O <sub>5</sub>	As <sub>2</sub> O <sub>3</sub>	Sb <sub>2</sub> O <sub>3</sub>	V <sub>2</sub> O <sub>5</sub>	MoO <sub>3</sub>	TiO <sub>2</sub>	F	SrO	CdO	Bi <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Ta <sub>2</sub> O <sub>5</sub>	Nb <sub>2</sub> O <sub>5</sub>	UO <sub>3</sub>	GeO <sub>2</sub>	Ga <sub>2</sub> O <sub>3</sub>	CeO <sub>2</sub>	
	0.6	-	-	-	-	-	0.5	-	0.8	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	0.5	-	-	-	-	-	-	-	-	-	-	
15	0.5	-	-	-	-	-	-	-	-	0.5	-	-	-	-	-	-	-	
5	2	2	1	1	-	-	-	-	-	1	0.5	-	-	-	1.5	-	1	
-	0.5	-	-	-	-	-	0.8	0.5	-	-	-	0.3	-	0.5	-	-	-	
-	-	1	-	-	-	1	4	1	-	-	1	0.12	0.5	1	-	0.1	0.5	
	Pr <sub>2</sub> O <sub>3</sub>	Nd <sub>2</sub> O <sub>3</sub>	La <sub>2</sub> O <sub>3</sub>	Ø 32x5 mm + Ø 40x5 mm														
	-	-	-															
	-	-	-															
	-	-	-															
	-	-	1															
	-	-	-															
	0.15	0.6	0.5															
SUS	Li <sub>2</sub> O	B <sub>2</sub> O <sub>3</sub>	F	Na <sub>2</sub> O	MgO	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	SO <sub>3</sub>	Cl	K <sub>2</sub> O	CaO	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	ZnO	As <sub>2</sub> O <sub>3</sub>	SrO	ZrO <sub>2</sub>
BR 2/L	0.000	13.800	0.000	6.820	6.730	4.680	44.600	1.260	0.120	0.000	3.120	3.930	0.990	0.100	2.670	0.500	0.700	0.500
BR 3/L	0.000	6.830	0.000	1.110	0.000	0.080	55.400	0.000	0.000	0.000	16.900	0.060	0.030	0.020	19.500	0.300	0.002	0.000
BR 4/L	0.000	4.250	0.000	1.080	0.000	0.700	35.000	0.000	0.000	0.000	1.850	4.770	2.330	0.020	4.980	0.310	0.220	0.000
BR 7/L	0.000	9.630	0.000	0.060	0.000	0.910	30.600	0.000	0.000	0.000	0.120	3.230	2.780	0.030	5.270	0.000	0.270	0.000
BR 8/L	0.000	7.470	4.020	0.070	0.010	8.070	49.400	0.000	0.000	0.000	20.100	0.020	9.200	0.020	0.000	0.420	0.000	0.000
	CdO	Sb <sub>2</sub> O <sub>3</sub>	BaO	La <sub>2</sub> O <sub>3</sub>	CeO <sub>2</sub>	PbO	Ø 40x5-8 mm											
	0.430	0.500	2.900	1.000	1.010	3.040	Spezialgläser für RFA											
	0.000	0.000	0.000	0.000	0.000	0.000	Special Glasses for XRF											
	0.000	0.200	24.700	0.000	0.000	18.700												
	0.000	0.620	45.600	0.000	0.000	0.260												
	0.000	0.000	0.000	0.000	0.000	1.200												

Spezialgläser und Keramikproben für die Rekalibrierung und Kontrolle von RFA-Spektrometern

Special glasses and ceramic samples for XRF-spectrometer recalibration and control

SUS	Al <sub>2</sub> O <sub>3</sub>	BaO	Bi <sub>2</sub> O <sub>3</sub>	CaO	CdO	CeO <sub>2</sub>	Co <sub>2</sub> O <sub>3</sub>	Cr <sub>2</sub> O <sub>3</sub>	CuO	F	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	MgO	MnO <sub>2</sub>	Na <sub>2</sub> O	NiO
BR G1	2.31	11.1	-	-	-	0.28	-	-	0.92	-	-	7.41	0.58	-	7.59	-
BR H1	4.00	-	-	3.8	-	-	-	-	-	-	-	8.7	2.6	-	6.2	-
BR K1/3	0.17	-	-	0.02	-	-	-	-	-	-	0.02	0.07	-	-	0.10	-
BR M1	1.3	62.2	-	-	-	-	-	2.8	-	-	0.02	-	-	-	-	-
BR N1	-	-	4.5	-	-	-	1.9	1.6	-	-	-	-	-	0.7	-	0.7
BR V1	-	-	-	1.93	0.26	-	-	-	-	1.23	-	7.79	-	-	12.15	-
BR W1	-	-	-	5.09	-	-	-	0.30	0.51	-	-	2.46	3.22	-	17.16	-
BR X1	-	-	-	4.99	-	-	0.2	-	1.60	-	-	2.26	3.12	-	16.96	-
BR Y1	-	-	-	4.99	-	-	-	0.13	2.62	-	-	2.16	3.12	-	16.61	-
BR Z1	3.9	-	-	2.25	-	-	-	-	-	4.7	-	5.27	1.65	-	12.48	-
	PbO	Sb <sub>2</sub> O <sub>3</sub>	Se	SiO <sub>2</sub>	SrO	TiO <sub>2</sub>	ZnO	ZrO <sub>2</sub>	Ø 40x3-6 mm							
G1	2.03	0.57	-	61.15	4.99	0.14	-	1.0	TV-Glas							
H1	23.5	-	-	51.1	-	-	-	-	TV-Glas							
K1/3	-	-	-	99.5	-	0.02	-	-	Quartz, monokristal.							
M1	-	-	-	0.2	-	33.5	-	-	Piezokeramik							
N1	-	9.3	-	0.2	-	0.9	0.2	-								
V1	-	-	0.19	66.75	-	-	9.67	-								
W1	-	-	-	71.29	-	-	-	-								
X1	-	-	-	70.89	-	-	-	-								
Y1	-	-	-	70.50	-	-	-	-								
Z1	-	-	-	67.0	-	-	2.75	-								

Die meisten Glas- und Keramik-SUS-Proben wurden in kleinen Schmelzen gefertigt, geringe Veränderungen der Zusammensetzung bei Folgeschmelzen möglich

Most glass and ceramic SUS-samples were produced in small batches, slight changes in composition possible



SUS	Al <sub>2</sub> O <sub>3</sub>	B <sub>2</sub> O <sub>3</sub>	BaO	C	Cl	CeO <sub>2</sub>	CaO	CdO	CoO	Cr <sub>2</sub> O <sub>3</sub>	CuO	F	Fe <sub>2</sub> O <sub>3</sub>	Ga <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	MgO	MnO	Na <sub>2</sub> O
BR U4/2	1.0	-	-	-	-	-	2.0	0.40	-	-	-	1.20	0.05	-	0.60	-	-	12.0
BR U7	7.1	0.5	0.5	-	0.6	-	3.6	-	-	-	-	2.8	0.14	-	5.1	0.05	-	11.5
BR U12	7.0	-	-	-	-	-	4.5	-	-	-	-	6.0	0.02	-	2.5	0.05	-	14.0
BR U13	1.5	-	-	-	-	-	7.5	-	-	-	-	1.0	0.06	-	3.0	-	-	13.5
BR U14	1.3	-	1.3	-	-	-	7.7	-	-	-	-	-	0.05	-	5.3	0.07	-	12.1
BR U17	1.7	-	-	-	-	-	7.9	-	-	0.6	1.0	0.5	0.10	-	3.5	-	-	13.0
BR U21	2.0	10	-	-	-	0.15	6.5	1.5	0.25	0.6	1	-	0.05	-	5.8	0.05	0.15	10.0
BR U25	3.0	-	-	-	-	-	6.9	-	-	0.27	0.18	-	0.34	-	2.9	0.15	6.0	9.3
BR U26	1.5	-	0.1	-	-	2.0	6.5	-	-	-	-	1.0	0.07	-	3.0	-	-	13.3
BR U27	1.4	-	-	0.16	-	-	10	-	-	-	-	-	0.2	-	0.4	-	-	14.5
BR U29*	-	-	-	-	-	-	71	-	-	-	-	48	-	-	-	-	-	-
BR U30	20.0	22.0	-	-	-	-	-	-	-	-	-	-	-	-	-	14.0	-	14.0
BR U31B	1.5	-	-	-	-	-	20.0	-	-	2.0	-	-	16.0	-	3.0	-	-	-
BR U32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.00	-	-	10.0
BR U33	0.25	-	-	-	-	-	56	-	-	-	-	-	0.2	-	-	-	-	-
BR U34	-	-	7.8	-	-	-	6.5	-	-	0.25	0.1	-	0.03	-	5.4	-	-	9.3
BR U35	1.2	3.0	-	-	-	-	0.75	0.52	-	-	-	0.5	0.05	-	5.3	0.02	-	13.5
BR U37	1.9	-	-	-	-	-	8	-	0.25	-	-	0.5	0.05	-	2.5	0.05	-	12.0
BR U38	1.2	-	-	-	-	-	5.3	-	-	-	-	0.5	0.04	-	7.5	0.07	-	9.2
BR U40	1.0	-	-	-	-	-	6.0	-	-	-	-	-	0.05	0.05	0.5	4.0	-	14.9
	Nd <sub>2</sub> O <sub>3</sub>	NiO	P <sub>2</sub> O <sub>5</sub>	PbO	Sb <sub>2</sub> O <sub>3</sub>	SeO <sub>2</sub>	SiO <sub>2</sub>	SrO	Sm <sub>2</sub> O <sub>3</sub>	SO <sub>3</sub>	TeO <sub>2</sub>	TiO <sub>2</sub>	Tl <sub>2</sub> O <sub>3</sub>	U <sub>3</sub> O <sub>8</sub>	Y <sub>2</sub> O <sub>3</sub>	ZnO	Ø 40x5 mm	
U4/2	-	-	-	-	-	-	67.0	-	-	1.70	-	-	-	-	-	15.0		
U7	-	-	2.5	0.1	0.14	-	65.3	0.25	-	-	-	-	-	-	-	0.05		
U12	-	-	-	-	0.2	-	65.5	-	-	-	-	-	-	-	-	2.0		
U13	-	-	-	-	0.25	-	71.5	-	-	0.25	-	-	-	-	-	1.0		
U14	-	-	-	-	0.36	-	71.0	0.20	-	0.28	-	-	-	-	-	-		
U17	-	-	-	-	0.18	-	70.5	-	-	0.1	-	-	-	-	-	0.6		
U21	-	0.15	-	-	0.25	0.02	60.0	-	-	0.15	-	-	-	0.40	-	-		
U25	-	-	-	-	0.20	-	69.3	-	-	0.12	-	-	-	0.10	-	0.8		
U26	-	-	-	-	0.25	0.14	70.0	-	-	0.2	-	-	-	1.0	-	1.0		
U27	-	-	-	-	-	-	73.0	-	-	0.04	-	-	-	-	-	-		
U29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
U30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
U31B	-	-	1.0	4.0	-	-	49.1	-	-	0.4	-	3.0	-	-	-	-		
U32	-	-	-	-	-	-	60.0	-	-	-	-	-	-	-	-	-		
U33	-	-	-	-	-	-	0.3	-	-	-	-	-	-	-	-	-		
U34	-	-	-	-	0.35	-	69.7	-	-	-	-	-	-	-	-	-		
U35	-	-	-	-	0.03	0.05	60.5	-	-	0.1	-	-	-	-	-	14.5		
U37	-	-	-	-	0.29	-	73.0	-	-	0.15	-	-	-	-	-	1.0		
U38	2.5	-	-	-	0.2	-	72.0	-	-	0.11	-	-	-	-	-	1.1		
U40	-	-	-	-	-	-	72.6	-	0.1	0.35	0.05	-	0.1	-	0.1	-		

\* = Ca-Konzentration in CaF<sub>2</sub> ausgedrückt als CaO  
Ca-concentration in CaF<sub>2</sub> expressed as CaO

SUS	Ag <sub>2</sub> O	Al <sub>2</sub> O <sub>3</sub>	As <sub>2</sub> O <sub>3</sub>	B <sub>2</sub> O <sub>3</sub>	Bi <sub>2</sub> O <sub>3</sub>	Br	CaO	CeO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	GeO <sub>2</sub>	I	K <sub>2</sub> O	La <sub>2</sub> O <sub>3</sub>	MgO	MoO <sub>3</sub>	Na <sub>2</sub> O	Nd <sub>2</sub> O <sub>3</sub>	NiO
BR U16	-	-	1.5	24.0	-	-	-	1.0	0.10	1.5	-	5.0	1.0	10.0	1.0	10.0	-	-
BR U22	0.50	7.0	-	8.0	0.5	0.1	10.0	-	-	-	0.1	-	-	6.5	-	16.0	0.5	2.0
	P <sub>2</sub> O <sub>5</sub>	PbO	Pr <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	SnO <sub>2</sub>	Ta <sub>2</sub> O <sub>5</sub>	V <sub>2</sub> O <sub>5</sub>	WO <sub>2</sub>	ZnO	Ø 40x5 mm								
U16	-	2.0	-	40.0	0.5	0.1	1.5	1.0	-									
U22	0.3	-	0.5	45.0	-	-	-	-	1.0									

SUS	SiO <sub>2</sub>	B <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	MgO	Al <sub>2</sub> O <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	SO <sub>3</sub>	K <sub>2</sub> O	CaO	TiO <sub>2</sub>	Mn <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	Sb <sub>2</sub> O <sub>3</sub>	PbO	Ø 40x5 mm		
BR ACEM	9.56	19.88	11.15	7.03	21.68	0.20	0.50	3.14	10.53	0.20	0.20	11.93	2.00	2.00			
BR BCEM	49.15	2.40	2.12	2.37	4.88	0.01	0.50	0.99	35.00	0.01	0.01	2.25	0.31	-			
SUS	SiO <sub>2</sub>	B <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	MgO	Al <sub>2</sub> O <sub>3</sub>	SO <sub>3</sub>	Cl	K <sub>2</sub> O	CaO	Fe <sub>2</sub> O <sub>3</sub>	Sb <sub>2</sub> O <sub>3</sub>	Ø 40x5 mm					
BR SP1-1	15.00	25.65	1.00	8.00	5.00	0.05	0.20	2.00	40.60	2.00	0.50						
BR SP2	25.00	19.50	2.00	6.00	9.00	0.30	0.70	2.00	30.00	5.00	0.50						
SUS	SiO <sub>2</sub>	Na <sub>2</sub> O	MgO	SO <sub>3</sub>	K <sub>2</sub> O	CaO	Fe <sub>2</sub> O <sub>3</sub>	ZnO	Cr <sub>2</sub> O <sub>3</sub>	MnO <sub>2</sub>	Ø 40x5 mm						
BR AB1	69.33	14.20	3.12	0.45	6.25	4.99	0.04	0.95	-	-							
BR AC1	66.84	15.79	3.04	-	2.50	4.86	-	-	0.40	6.57							
SUS	SiO <sub>2</sub>	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	SO <sub>3</sub>	K <sub>2</sub> O	CaO	ZnO	CdO	BaO	PbO	Ø 40x5 mm						
BR AK1	47.82	10.00	3.38	1.80	2.00	10.00	10.00	5.00	5.00	5.00							
BR AK2	30.83	10.00	4.00	0.67	0.50	1.00	1.00	1.00	1.00	50.00							
SUS	SiO <sub>2</sub>	B <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	Al <sub>2</sub> O <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	S	Cl	K <sub>2</sub> O	CaO	Cr <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	NiO	CuO	ZnO	Sb <sub>2</sub> O <sub>3</sub>	PbO	Ø 40x5 mm
BR DEA1	73.193	0.670	9.540	0.378	0.458	0.200	0.200	7.700	5.600	0.292	0.286	0.254	0.250	0.249	0.500	0.230	
BR DEA2	69.294	0.670	9.540	0.945	1.146	0.500	0.500	7.700	5.600	0.731	0.715	0.636	0.625	0.623	0.500	0.575	
SUS	SiO <sub>2</sub>	B <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	MgO	Al <sub>2</sub> O <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	SO <sub>3</sub>	Cl-	K <sub>2</sub> O	CaO	TiO <sub>2</sub>	Cr <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	NiO	CuO	MnO	ZnO
BR DS1	3.00	41.82	17.00	0.60	21.82	0.57	0.50	0.60	0.83	0.71	0.60	0.68	0.70	0.78	0.80	2.00	0.80
BR DS2	3.00	45.00	17.82	0.60	21.80	0.57	0.50	-	0.83	0.71	0.60	0.68	0.70	0.78	0.80	-	0.80
SUS	MoO	Ag <sub>2</sub> O	CdO	SnO <sub>2</sub>	BaO	PbO	V <sub>2</sub> O <sub>5</sub>	Bi <sub>2</sub> O <sub>3</sub>	Ø 40x5 mm								
	0.66	0.93	2.00	0.79	0.89	0.92	-	-									
	-	-	-	-	0.89	0.92	0.60	1.20									
SUS	SiO <sub>2</sub>	B <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	CaO	V <sub>2</sub> O <sub>5</sub>	Cr <sub>2</sub> O <sub>3</sub>	CoO	NiO	CuO	ZnO	As <sub>2</sub> O <sub>3</sub>	MoO <sub>3</sub>	CdO	SnO	Sb <sub>2</sub> O <sub>3</sub>	
BR EKO10	67.14	0.74	8.54	6.82	4.96	0.89	1.17	0.38	0.64	0.63	3.73	0.13	0.30	0.02	0.57	0.44	
SUS	BaO	PbO	Ø 40x5 mm														
	2.24	0.65															
SUS	SiO <sub>2</sub>	B <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	Al <sub>2</sub> O <sub>3</sub>	CaO	CoO	ZnO	Fe(tot)	Ø 40x5 mm			Fe <sup>II</sup> : Fe <sup>III</sup> = 0.85					
BR FE2FE3	67	0.8	17	1.7	2.5	0.01	0.6	10									
* Fe(tot) ausgedrückt als/expressed as Fe <sub>2</sub> O <sub>3</sub>																	
SUS	SiO <sub>2</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	B <sub>2</sub> O <sub>3</sub>	Sb <sub>2</sub> O <sub>3</sub>	PbO	Al <sub>2</sub> O <sub>3</sub>	Cl	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	SO <sub>3</sub>	CaO	MgO	ZnO	ZrO <sub>2</sub>	Ø 40x5 mm	
BR FR2	73.50	9.00	3.40	10.00	1.00	3.00	0.015	0.006	0.008	0.014	0.022	0.011	0.013	0.007	0.004		

SUS	SiO <sub>2</sub>	MgO	Al <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	CaO	Sb <sub>2</sub> O <sub>3</sub>	BaO	PbO	Ø 40x5 mm					
BR K	52.26	1.97	2.96	30.50	1.97	0.49	0.98	8.87						
SUS	SiO <sub>2</sub>	B <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	MgO	SO <sub>3</sub>	Cl-	K <sub>2</sub> O	CaO	Fe <sub>2</sub> O <sub>3</sub>	ZnO	Br-	Sb <sub>2</sub> O <sub>3</sub>	PbO	Ø 40x5 mm
BR KC1	73.50	2.00	2.00	-	-	0.50	15.00	-	-	2.00	-	1.00	4.00	
BR KC2	73.50	2.00	2.00	0.0083	0.0125	0.50	15.00	0.0140	0.0028	2.00	0.010	1.00	4.00	
SUS	SiO <sub>2</sub>	F-	Na <sub>2</sub> O	SO <sub>3</sub>	CaO	CoO	ZnO	Se	CdO	Ø 40 x5 mm				
BR PN1	60.0	1.00	9.80	2.00	2.00	1.00	16.00	1.00	7.20					
SUS	SiO <sub>2</sub>	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	CaO	B	Rb <sub>2</sub> O	Sb <sub>2</sub> O <sub>3</sub>	Ø 40x5 mm					
BR RB	73.75	3.94	6.90	10.77	3.94	0.10	0.11	0.49						
SUS	SiO <sub>2</sub>	B <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	MgO	Al <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	CaO	ZnO	Br	Sb <sub>2</sub> O <sub>3</sub>	Ø 40x5 mm			
BR SA1	70.60	10.00	1.90	0.80	3.00	10.40	0.20	2.00	0.10	1.00				
SUS	SiO <sub>2</sub>	B <sub>2</sub> O <sub>3</sub>	MgO	Al <sub>2</sub> O <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	SO <sub>3</sub>	K <sub>2</sub> O	CaO	TiO <sub>2</sub>	MnO	Fe <sub>2</sub> O <sub>3</sub>	Cr <sub>2</sub> O <sub>3</sub>	Ø 40x5 mm	
BR BF2	36.0	3.43	8.0	10.0	2.0	0.2	0.4	37.0	1.0	0.77	1.0	-	Hochfenschlacke; Blast Furnace Slag Stahlwerksschlacke; Steel Making Slag	
BR SS2	16.1	1.0	8.0	1.5	0.9	0.03	0.2	38.0	1.0	5.8	27.1	0.4		
SUS	SiO <sub>2</sub>	Na <sub>2</sub> O	PbO	K <sub>2</sub> O	CaO	B <sub>2</sub> O <sub>3</sub>	SnO <sub>2</sub>	CuO	Cl-	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	BaO	Ø 40x5 mm
BR SVCL1	67.4	8.4	7.4	5.8	3.1	2.3	1.8	1.5	0.9	0.8	0.5	0.1	0.1	
SUS	SiO <sub>2</sub>	Na <sub>2</sub> O	MgO	K <sub>2</sub> O	B <sub>2</sub> O <sub>3</sub>	CaO	Al <sub>2</sub> O <sub>3</sub>	Sb <sub>2</sub> O <sub>3</sub>	BaO	PbO	Ø 40x5 mm			
BR TAB3	44.10	9.00	8.00	30.00	-	0.30	3.00	0.60	2.00	3.00				
BR TAB4	57.37	2.00	1.00	31.00	-	0.03	3.00	0.60	2.00	3.00				
BR TAB5	38.40	10.00	28.00	-	15.00	-	3.00	0.60	2.00	3.00				
SUS	SiO <sub>2</sub>	Na <sub>2</sub> O	CaF <sub>2</sub>	MgO	Al <sub>2</sub> O <sub>3</sub>	P <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	V <sub>2</sub> O <sub>5</sub>	Fe <sub>2</sub> O <sub>3</sub>	Ø 40x5 mm				
BR WC	38.10	10.00	20.00	5.00	25.00	0.15	0.80	0.15	0.80					

SUS	MnO	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	SiO <sub>2</sub>	Zn	Cr	Pb	Ni	Mo	V	Cu	K <sub>2</sub> O	Na <sub>2</sub> O	TiO <sub>2</sub>	Fe	Co	Sb
BR 8FLUX	0.46	1.27	0.67	0.76	1.31	0.11	0.47	0.10	0.52	0.091	0.08	0.47	0.71	0.74	0.63	0.44	0.44	0.10
	Bi	P	Ag	Sn	Te	Be	F	S	Cl	Sc	Ga	Ge	As	Se	Br	Rb	Sr	Y
	0.085	0.50	0.11	0.093	0.38*	0.10*	0.51	0.43	0.49	0.0076	0.0077	0.10	0.13	0.20*	0.098	0.01	0.48	0.005
	Zr	Nb	Ru	In	Cs	Ba	I	La	Ce	Pr	Nd	Sm	Gd	Tb	Hf	Ta	Ti	
	0.405	0.13	0.01*	0.0055	0.0115	0.517	0.39*	0.086	0.104	0.10*	0.10*	0.0070	0.01*	0.0091	0.0134	0.0911	0.10*	
	Th	U	* berechnet auf Synthesebasis; Calculated on synthetic basis															
	0.0895	0.0834	LiBO <sub>3</sub> -Pulverprobe als " feste Lösung " für die Spurenbestimmung bei der RFA-Aufschlußtechnik; Trace elements as " solid solution " in LiBO <sub>3</sub> -flux for XRF flux melting technique															

Einzelelement Pulverstandard von 53 Elementen mit 1% Elementmasse in CHEMPLEX X-RayMix Powder No. 600, Pulverpressling in Alubecher von 32, 35 oder 40 mm Durchmesser. Bei Bestellung Art.-Nr. und Durchmesser angeben. Technisches Merkblatt auf Anfrage.

Single Element Powder Briquette, 1% wt. of a single analyte in CHEMPLEX X-RayMix Powder No. 600, pressed pellet in aluminium tapered cup of 32, 35 or 40 mm diameter. When ordering please indicate art.-no. and diameter. Technical leaflet on request.