

Table 2: Chemical analysis of all samples

no.	C	Si	Mn	P	S	Cr	Ni	Mo	V	Cu	Ti	Sn	Al	Mg	B	Fe	total
20	3.44	.188	0.00	.017	.016	0.0	.076	0.0	.02	.026	.000	.00	.002	0.00	.000	96.02	99.805
24	4.41	.173	0.00	.016	.017	0.0	.075	0.0	.02	.028	.000	.00	.004	.000	.000	95.06	99.803
25	3.40	.168	.114	.017	.017	0.0	.080	0.0	.02	.028	.000	.00	.002	0.00	****	95.95	99.796
26	3.49	.172	.216	.018	.017	0.0	.078	0.0	.02	.029	.000	.00	.000	0.00	.000	95.75	99.790
27	3.95	.178	.322	.018	.019	0.0	.075	0.0	.03	.033	.001	.00	.001	.000	****	95.17	99.797
28	3.42	.096	0.00	.016	.016	0.0	.082	0.0	.02	.026	0.00	.00	.000	0.00	****	96.12	99.796
29	3.43	.204	0.00	.017	.014	0.0	.083	0.0	.02	.026	0.00	.00	.002	0.00	.000	96.01	99.806
30	3.44	.471	0.00	.017	.012	0.0	.082	0.0	.02	.026	.000	.00	.009	0.00	****	95.72	99.797
31	4.31	.991	0.00	.018	.023	0.0	.077	0.0	.02	.029	.001	.00	.022	.000	****	94.31	99.801
*32	3.55	.062	0.00	.016	.015	0.0	.078	0.0	.01	.026	0.00	.00	>0.05	0.00	****		
*33	3.60	.065	0.00	.015	.015	0.0	.079	0.0	.01	.027	0.00	.00	>0.05	0.00	****		
*34	4.08	.066	0.00	.015	.014	0.0	.083	0.0	.01	.028	.000	.00	>0.05	.000	****		
*35	3.96	.064	0.00	.016	.016	0.0	.084	0.0	.01	.027	.000	.00	>0.05	0.00	.000		
36	4.25	.200	0.00	.015	.016	0.0	.071	0.0	.02	.027	.001	.00	.001	0.00	****	95.20	99.801
40	4.10	.197	0.00	.016	.068	0.0	.069	0.0	.02	.027	.000	.00	.003	0.00	****	95.30	99.800
41	3.67	.242	0.00	.015	.124	0.0	.067	0.0	.02	.024	.000	0.0	.002	0.00	****	95.64	99.804
42	3.50	.275	0.00	.015	.215	0.0	.067	0.0	.02	.030	.001	.00	.002	0.00	****	95.68	99.805
43	3.50	.265	0.00	.016	>0.3	0.0	.070	0.0	.02	.032	.001	.00	.003	.000	.000		
44	3.68	.212	.083	.015	.020	0.0	.060	0.0	.02	.025	.000	.00	.001	0.00	****	95.68	99.796
45	3.95	.215	.170	.015	.018	0.0	.058	0.0	.02	.027	.000	.00	.001	0.00	****	95.33	99.804
46	3.81	.225	.266	.016	.021	0.0	.062	0.0	.02	.029	.000	.00	.000	.001	****	95.34	99.790
47	3.73	.218	.336	.016	.021	0.0	.062	0.0	.02	.030	.001	.00	.000	.000	****	95.36	99.794
*48	3.75	.415	0.00	.014	.016	.08	.055	0.0	.02	.024	.001	.00	.001	0.00	****	95.42	99.796
*49	3.95	.395	0.00	.014	.018	.42	.055	0.0	.02	.022	.000	.00	.065	0.00	****	94.83	99.789
*50	3.97	.403	0.00	.015	.019	.57	.058	0.0	.02	.023	.001	.00	>0.05	.000	****		
*51	4.06	.401	0.00	.015	.018	.57	.060	0.0	.02	.024	.001	.00	>0.05	.000	****		

no.	C	Si	Mn	P	S	Cr	Ni	Mo	V	Cu	Ti	Sn	Al	Mg	B	Fe	total
52	3.8	.34	0.00	.088	.015	0.0	.065	.00	.02	.024	.001	.00	.003	0.00	.000		
53	3.8	.33	0.00	.171	.015	0.0	.071	.00	.02	.025	.001	.00	.003	0.00	.000		
54	3.8	.32	0.00	.269	.017	0.0	.082	0.0	.02	.025	.001	.00	.003	0.00	.000		
55	3.6	.29	0.00	.352	.014	0.0	.080	.00	.02	.023	.001	.00	.001	0.00	.000		
56	3.8	.232	.00	.016	.023	0.0	.062	0.0	.03	.03	.001	.00	.004	0.00	.000		
60	3.7	.225	0.00	.015	.020	0.0	.060	0.00	.03	.03	.001	.00	.003	0.00	.000		