
COAL QUALITY SPECIFICATION

Nº ETT_SP_TC



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



COAL STOCKPILES QUALITY (weighted average)

Total moisture TM (ar)	Total sulphur S (db)	Volatile matter VM (daf)	
3.0%	1.0%	34.0%	
(-1.0; +3.0)	(-0.3; +0.5)	(max)	
Calorific value CV (ar)	Ash (db)	G Index	QUANTITY
5500	26.0%	≤5.0	128.0
(-500; +500)	(-5.0; +5.0)		Thousand tons

THE FOLLOWING IS THE RESULT OF THE LABORATORY TESTS

ALS GROUP LLC
Mongol Nakhmel Building, 2nd khoroo
Chinggis Avenue, Khan-Uul District
Ulaanbaatar, Mongolia
Tel +976 70 007667



CERTIFICATE OF ANALYSIS
248140-J122-TT

CLIENT: Erdenes Tavantolgoi JSC
ADDRESS: Finance Center, Jigjidjav-8
1st khoroo, Chingeltei District
Ulaanbaatar, Mongolia
ATTN: Munkhtuul.G
PROJECT NO. xxx
LAB. JOB NO. 248140-J122-TT
NO. SAMPLES: 61
Notes/Comments: xxx

SAMPLES RECEIVED: 16/02/2024 12/10/2024
INSTRUCTIONS RECEIVED: 16/02/2024 12/10/2024
DATE OF REPORT: 17/02/2024 13/10/2024
STATUS OF REPORT: FINAL
ANALYSIS COMPLETE: 17/02/2024 13/10/2024
PREPARATION CODE: CRUSH-01, 02; MILL-01
ANALYSIS CODE: 2.1_THERMAL COAL_CSN
TM, MOIS, ASH, VOL, TSUL
GCV, CKIN

APPROVED BY: Laboratory Manager

Quality Manager

CHECKED BY: Chief Chemist

These test results are representative only of the sample received in the laboratory.

LAB NO.	SAMPLE NO.	AS RECEIVED BASIS				AIR DRIED BASIS							
		Total Moisture (TM)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)	Moisture (MOIS)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)
		%				kcal/kg							
1	ETT-SP-30013-1A	3.36	24.08	22.47	50.09	0.78	5975	0.47	24.80	23.14	51.59	0.80	6154
2	ETT-SP-30013-1B	4.30	21.92	22.68	51.10	1.02	6128	0.62	22.76	23.56	53.06	1.06	6365
3	ETT-SP-30013-1C	4.07	24.47	22.39	49.07	1.05	5862	0.63	25.35	23.20	50.83	1.09	6072
4	ETT-SP-30013-1D	4.63	23.33	22.61	49.43	0.97	5873	0.73	24.28	23.54	51.45	1.01	6113
5	ETT-SP-30013-2A	3.04	21.59	23.24	52.13	0.76	6185	0.48	22.16	23.85	53.50	0.78	6348
6	ETT-SP-30013-2B	2.80	29.13	21.21	46.85	0.98	5536	0.59	29.79	21.70	47.92	1.00	5662
7	ETT-SP-30013-2C	3.89	27.86	20.94	47.31	0.90	5652	0.62	28.80	21.65	48.92	0.93	5845
8	ETT-SP-30013-2D	4.34	22.57	22.74	50.35	0.74	6050	0.59	23.45	23.63	52.33	0.77	6287
9	ETT-SP-30013-3A	2.29	22.57	24.41	50.73	0.86	6123	0.49	22.99	24.86	51.67	0.88	6235
10	ETT-SP-30013-3B	2.37	22.36	23.87	51.40	0.85	6214	0.51	22.79	24.33	52.38	0.87	6332
11	ETT-SP-30013-3C	2.69	23.67	23.50	50.14	1.03	6068	0.54	24.19	24.02	51.24	1.06	6202
12	ETT-SP-30013-3D	2.41	23.54	23.71	50.34	0.96	6084	0.51	24.00	24.17	51.32	0.97	6202

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release. COPY RIGHT PROTECTED DOCUMENT

Table with 14 columns (ID, Sample No, Moisture, Ash, Volatile Matter, Fixed Carbon, Total Sulphur, Gross Calorific Value, Volatile Matter, Fixed Carbon, Total Sulphur, Gross Calorific Value, Crucible Swelling Number, Coal Caking Index) and 61 rows of data.

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CERTIFICATE OF ANALYSIS
24B140-J122-TT

CLIENT: Erdenes Tavantolgoi JSC
ADDRESS: Finance Center, Gijidjav-8
1st khoroo, Chingeltei District
Ulaanbaatar, Mongolia
ATTN: Munkhtuu.G
PROJECT NO. xxx
LAB. JOB NO. 24B140-J122-TT
NO. SAMPLES: 61
Notes/Comments: xxx

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INSTRUCTIONS RECEIVED: 16/02/2024 12/10/2024
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STATUS OF REPORT: FINAL
ANALYSIS COMPLETE: 17/02/2024 13/10/2024
PREPARATION CODE: CRUSH-01_02; MILL-01
ANALYSIS CODE: 2_1_THERMAL COAL
CSN
TM, MOIS, ASH, VOL,
TSUL, GCV, CKIN

These test results are representative only of the sample received in the laboratory.

Detailed analysis table with columns for Standard Method, Lab No, Sample No, and various chemical parameters (Ash, Volatile Matter, Fixed Carbon, Total Sulphur, Gross Calorific Value, etc.) across 12 samples.

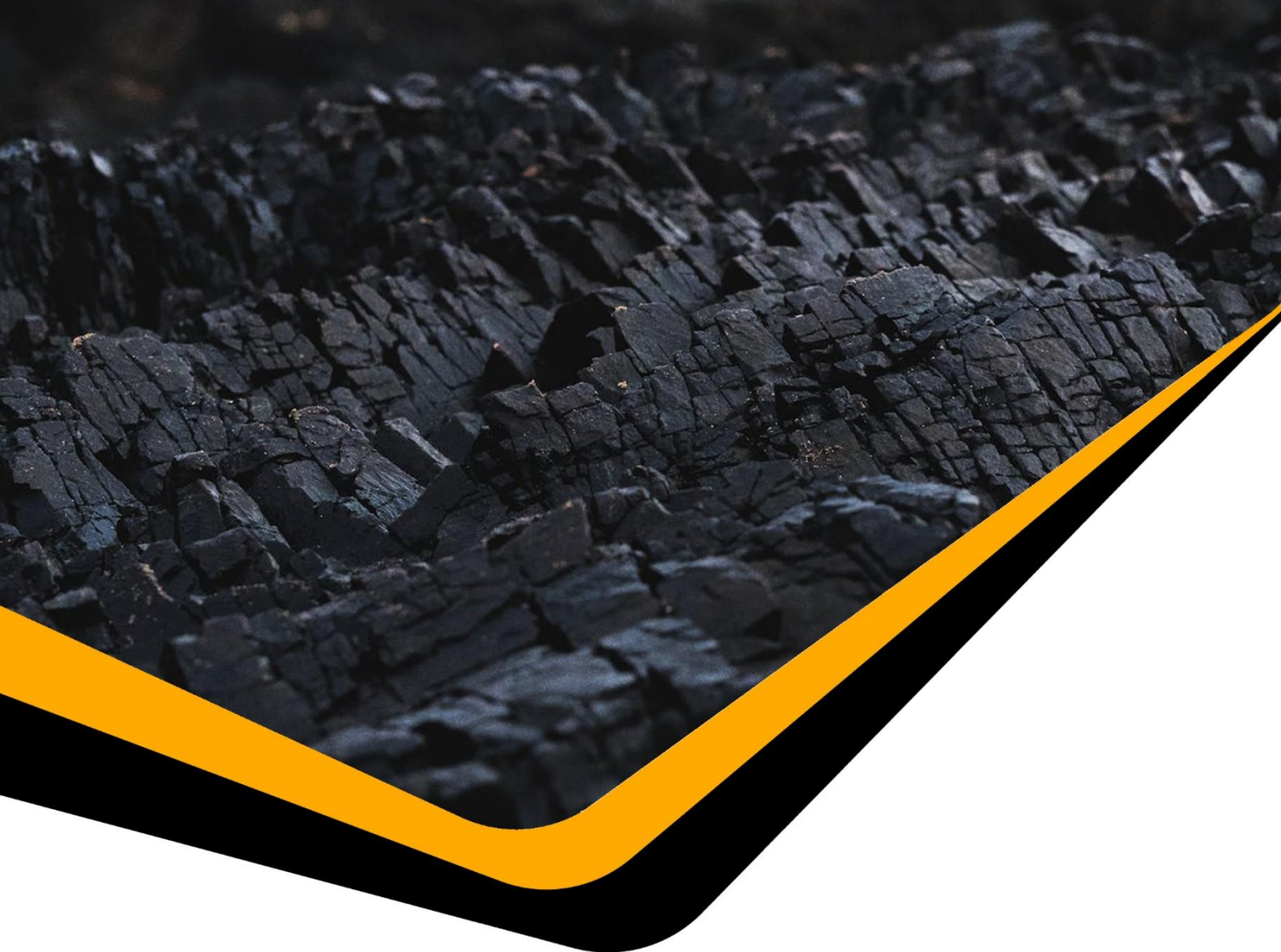
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ETT_SP_TC General info



13	ETT_SP_30013-4A	30.66	22.25	47.09	0.99	5632	32.08	67.92	1.43	8123	-	15
14	ETT_SP_30013-4B	24.55	22.97	52.48	0.96	6270	30.44	69.56	1.27	8310	-	14
15	ETT_SP_30013-4C	24.86	24.28	50.87	0.98	6188	32.31	67.69	1.31	8235	-	14
16	ETT_SP_30013-5A	24.40	23.18	52.41	0.91	6211	30.67	69.33	1.20	8216	-	16
17	ETT_SP_30013-5B	24.58	23.74	51.69	0.80	6207	31.47	68.53	1.05	8230	-	16
18	ETT_SP_30013-5C	27.20	22.59	50.21	0.81	5934	31.03	68.97	1.11	8151	-	14
19	ETT_SP_30013-6A	21.58	23.38	55.04	0.97	6475	29.82	70.18	1.23	8257	1.0	13
20	ETT_SP_30013-6B	22.89	22.56	54.55	0.58	6446	29.26	70.74	0.75	8360	-	13
21	ETT_SP_30013-6C	23.80	22.47	53.73	1.01	6345	29.49	70.51	1.33	8326	-	14
22	ETT_SP_30013-7A	24.09	21.75	54.16	2.56	6264	28.65	71.35	3.37	8253	1.0	4
23	ETT_SP_30013-7B	23.86	23.05	53.09	0.89	6327	30.28	69.72	1.17	8309	1.0	15
24	ETT_SP_30013-8A	25.47	23.41	51.12	0.83	6192	31.41	68.59	1.12	8308	-	16
25	ETT_SP_30013-8B	24.06	23.07	52.87	0.70	6315	30.38	69.62	0.92	8316	-	15
26	ETT_SP_30013-8C	30.62	23.39	45.99	0.58	5522	33.72	66.28	0.83	7959	-	16
27	ETT_SP_30013-T1-1A	41.65	18.69	39.66	0.91	4637	32.03	67.97	1.55	7948	-	6
28	ETT_SP_30013-T1-2A	23.34	24.91	51.75	1.00	6423	32.49	67.51	1.31	8378	32	-
29	ETT_SP_30013-T2-1A	33.31	20.69	46.00	1.83	5500	31.03	68.97	2.74	8247	-	14
30	ETT_SP_30013-T2-1B	27.82	23.31	48.87	0.91	5950	32.29	67.71	1.26	8243	-	15
31	ETT_SP_30013-T2-1C	38.25	20.80	40.94	0.72	5034	33.69	66.31	1.17	8152	-	15
32	ETT_SP_30013-T2-2A	23.33	24.52	52.14	1.07	6357	31.99	68.01	1.40	8292	-	17
33	ETT_SP_30013-T2-2B	30.57	23.18	46.25	0.96	5685	33.39	66.61	1.39	8188	-	17
34	ETT_SP_30013-T2-2C	22.85	24.00	53.15	1.13	6397	31.10	68.90	1.47	8293	21	-
35	ETT_SP_30013-T2-3A	24.29	25.00	50.72	0.77	6306	33.01	66.99	1.01	8329	31	-
36	ETT_SP_30013-T2-3B	25.07	24.85	50.08	0.75	6139	33.16	66.84	1.00	8194	-	17
37	ETT_SP_30013-T2-3C	20.96	25.98	53.06	0.85	6612	32.87	67.13	1.08	8365	33	-
38	ETT_SP_30013-T2-4A	29.22	23.29	47.49	0.81	5758	32.90	67.10	1.15	8135	-	15
39	ETT_SP_30013-T2-4B	32.51	21.34	46.15	0.84	5550	31.62	68.38	1.25	8224	-	12
40	ETT_SP_30013-T2-4C	32.16	20.86	46.98	1.05	5649	30.74	69.26	1.55	8327	-	12
41	ETT_SP_30013-T2-5A	26.47	24.01	49.51	0.98	6037	32.66	67.34	1.33	8210	27	-
42	ETT_SP_30013-T2-5B	31.51	23.01	45.49	0.78	5544	33.59	66.41	1.14	8095	-	17
43	ETT_SP_30013-T2-6A	28.66	22.10	49.24	0.80	5928	30.98	69.02	1.13	8309	-	15
44	ETT_SP_30013-T2-6B	24.68	23.55	51.78	0.67	6261	31.26	68.74	0.89	8312	20	-
45	ETT_SP_30013-T2-7A	23.85	25.82	50.33	0.93	6108	33.90	66.10	1.23	8022	-	13
46	ETT_SP_30013-T2-7B	22.86	24.38	52.77	0.88	6146	31.60	68.40	1.14	7967	-	0
47	ETT_SP_30013-T2-8A	26.72	23.91	49.37	1.05	5953	32.63	67.37	1.43	8123	-	15
48	ETT_SP_30013-T2-8B	23.02	23.15	53.83	0.67	6286	30.07	69.93	0.87	8166	-	9
49	ETT_SP_30013-T2-9A	27.32	23.39	49.29	0.81	5953	32.18	67.82	1.11	8191	22	-
50	ETT_SP_30013-T3-1A	22.38	24.15	53.46	0.68	6463	31.12	68.88	0.87	8327	33	-
51	ETT_SP_30013-T3-1B	27.98	22.41	49.61	0.64	5983	31.11	68.89	0.88	8308	-	16
52	ETT_SP_30013-T3-1C	22.67	24.04	53.29	0.77	6533	31.08	68.92	0.99	8448	28	-
53	ETT_SP_30013-T3-1D	28.32	22.06	49.62	0.68	5984	30.78	69.22	0.95	8348	-	16
54	ETT_SP_30013-T3-2A	24.19	22.72	53.09	0.73	6386	29.97	70.03	0.97	8423	-	15
55	ETT_SP_30013-T3-2B	24.97	22.36	52.67	0.59	6299	29.80	70.20	0.79	8395	-	16
56	ETT_SP_30013-T3-2C	22.67	24.72	52.61	0.83	6434	31.97	68.03	1.07	8320	42	-
57	ETT_SP_30013-T3-2D	21.65	24.82	53.53	0.87	6517	31.68	68.32	1.11	8317	30	-
58	ETT_SP_30013-T3-3A	26.22	23.33	50.45	0.91	6191	31.63	68.37	1.23	8391	36	-
59	ETT_SP_30013-T3-3B	26.37	23.50	50.13	0.87	6111	31.92	68.08	1.18	8299	26	-
60	ETT_SP_30013-T3-3C	27.56	23.40	49.04	0.72	5928	32.30	67.70	0.99	8183	-	17
61	ETT_SP_30013-T3-3D	26.62	22.82	50.57	0.76	6110	31.09	68.91	1.03	8326	-	17

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