
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) 3.0% (-1.0; +5.0)	Ash (db) 25.7% (-5.0; +5.0)	Volatile matter VM (daf) 34.0% (max)
Total sulphur S (db) 1.0% (-0.3; +0.5)	Calorific value CV (ar) 5700 (-500; +500)	QUANTITY 256.0 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_CSX
 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							
		GB/T 211	GB/T 212	GB/T 212	GB/T 212	ISO 19579	GB/T 213	GB/T 212	GB/T 212	GB/T 212	ISO 19579	GB/T 213	
		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

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



CERTIFICATE OF ANALYSIS
 24B140-J122-TT

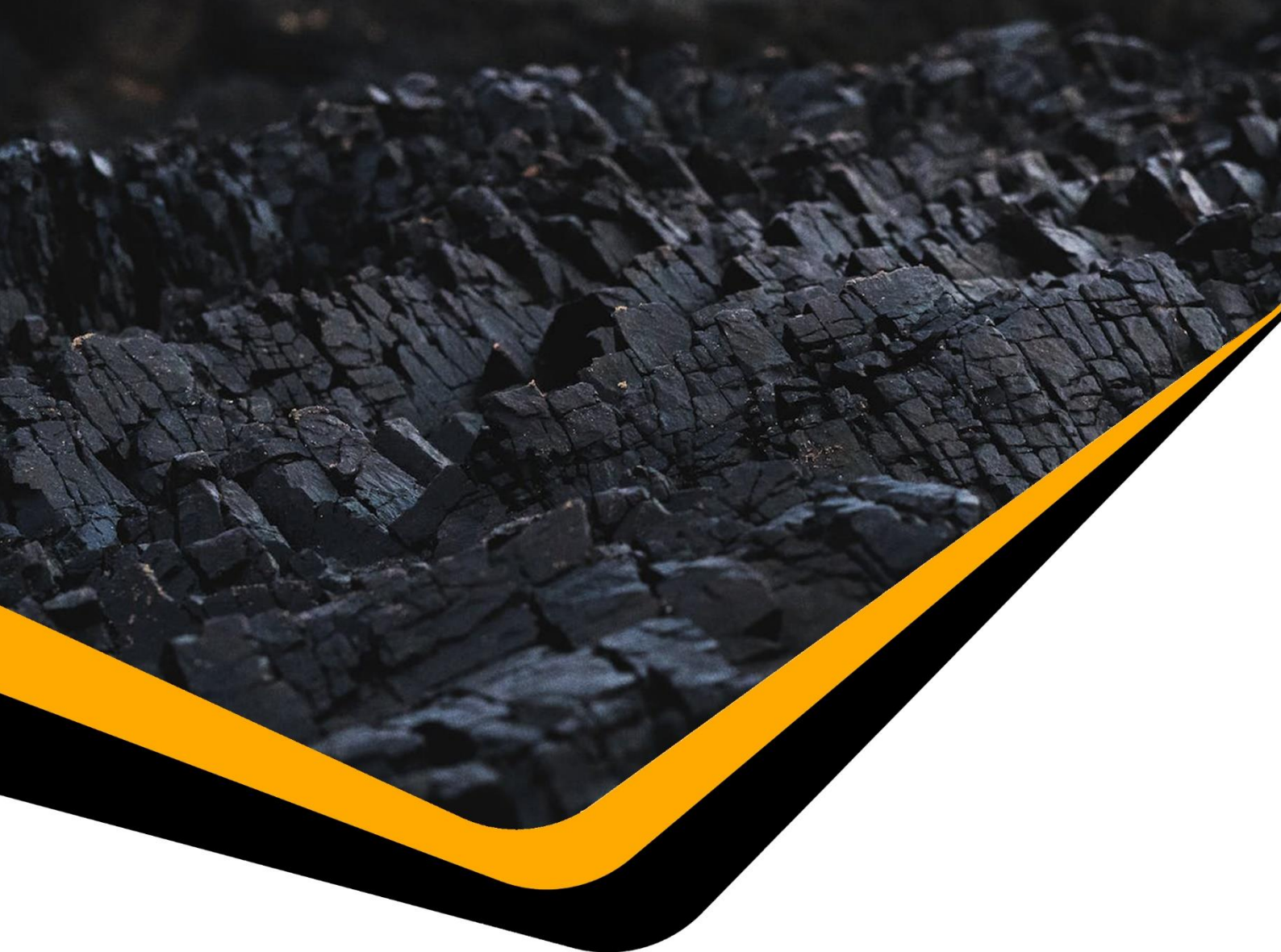
CLIENT: Erdenes Tavantolgoi JSC
ADDRESS: Finance Center, Jigjidjav-8
 1st khoroo, Chingeltei District
 Ulaanbaatar, Mongolia
ATTN: Munkhtuul.G
PROJECT NO. xxx
LAB. JOB NO. 24B140-J122-TT
NO. SAMPLES: 61
Notes/Comments: xxx

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

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

LAB NO.	SAMPLE NO.	GB/T 212		GB/T 212	ISO 19579	GB/T 213	GB/T 212	GB/T 212	ISO 19579	GB/T 213	GB/T 5448	GB/T 5447
		DRY BASIS										
		Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)	Crucible Swelling Number (CSN)	Coal Caking Index (CKIN)
		%					%					5:1 3:3
1	ETT-SP-30013-1A	24.92	23.25	51.83	0.81	6183	30.96	69.04	1.07	8234	-	16
2	ETT-SP-30013-1B	22.90	23.70	53.39	1.07	6404	30.75	69.25	1.39	8306	-	15
3	ETT-SP-30013-1C	25.51	23.34	51.15	1.10	6111	31.34	68.66	1.48	8203	-	16
4	ETT-SP-30013-1D	24.46	23.71	51.83	1.01	6158	31.39	68.61	1.34	8153	-	13
5	ETT_SP_30013-2A	22.27	23.97	53.76	0.78	6379	30.83	69.17	1.01	8207	-	14
6	ETT_SP_30013-2B	29.97	21.83	48.21	1.01	5696	31.17	68.83	1.44	8133	-	14
7	ETT_SP_30013-2C	28.98	21.79	49.23	0.94	5881	30.68	69.32	1.32	8282	-	10
8	ETT_SP_30013-2D	23.59	23.77	52.64	0.77	6325	31.11	68.89	1.01	8277	-	12
9	ETT_SP_30013-3A	23.10	24.98	51.92	0.88	6266	32.48	67.52	1.14	8148	-	16
10	ETT_SP_30013-3B	22.90	24.45	52.65	0.87	6365	31.71	68.29	1.13	8256	-	15
11	ETT_SP_30013-3C	24.33	24.15	51.52	1.06	6236	31.92	68.08	1.40	8240	-	17
12	ETT_SP_30013-3D	24.13	24.29	51.58	0.98	6234	32.01	67.99	1.29	8216	-	17

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



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



www.ett.mn



75055555
1800-1072



Финанс төв, 1-р хороо,
Чингэлтэй дүүрэг,
Улаанбаатар хот



