
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)

5.0%

(-1.0; +3.0)

Total sulphur S
(db)

1.0%

(-0.3; +0.5)

Volatile matter
VM (daf)

34.0%

(max)

Calorific value
CV (ar)

5500

(-500; +500)

Ash (db)

25.0%

(-5.0; +3.0)

G Index

≤5.0

QUANTITY

128.0

Thousand tons

THE FOLLOWING IS THE RESULT OF THE LABORATORY TESTS

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



CERTIFICATE OF ANALYSIS
24L09,L23,L31,L45,L284,L290,25A44,A50,A120,A176,A206,A238-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. 24L09,L23,L31,L45,L284,L290,25A44,A50,A120,A176,A206,A238-TT
NO. SAMPLES: 18
Notes/Comments: xxx

SAMPLES RECEIVED: 2/12/2024 23/01/2025
INSTRUCTIONS RECEIVED: 2/12/2024 23/01/2025
DATE OF REPORT: 3/12/2024 24/01/2025
STATUS OF REPORT: FINAL
ANALYSIS COMPLETE: 3/12/2024 24/01/2025
PREPARATION CODE: CRUSH-01, 02; MILL-01
ANALYSIS CODE: 2.1_THERMAL COAL
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.

STANDARD METHOD		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	GB/T 212	ISO 19579	GB/T 213
		AS RECEIVED BASIS				AIR DRIED BASIS							
LAB NO.	SAMPLE NO.	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	2423702	13.98	20.50	21.53	43.99	0.47	4940	3.75	22.94	24.09	49.22	0.53	5416
2	2423802	14.27	18.08	22.59	45.05	0.44	4921	3.36	20.38	25.47	50.79	0.50	5547
3	2424203	11.04	19.30	23.41	46.24	0.48	5171	2.52	21.15	25.65	50.68	0.53	5666
4	2424303	8.64	21.66	23.66	46.04	0.47	5425	1.91	23.25	25.41	49.43	0.51	5825
5	2424704	9.50	20.68	22.81	47.01	0.58	5364	2.49	22.28	24.57	50.66	0.63	5780
6	2424804	12.71	21.81	21.47	44.01	0.43	4808	3.14	24.20	23.83	48.83	0.48	5335
7	2425106	10.74	28.74	21.01	39.52	0.62	4424	3.11	31.19	22.81	42.89	0.67	4802
8	2425206	10.02	34.53	19.42	36.02	0.55	4034	2.44	37.44	21.06	39.06	0.60	4375
9	2439528	10.59	21.49	22.52	45.40	0.48	5033	4.23	23.02	24.12	48.63	0.51	5391
10	2439829	13.12	12.80	24.42	49.66	0.65	5406	3.85	14.17	27.03	54.96	0.71	5982
11	252506	6.84	18.59	23.96	50.61	0.32	5936	1.76	19.60	25.27	53.37	0.34	6260
12	252906	8.35	20.09	22.88	48.68	0.47	5601	1.93	21.49	24.48	52.10	0.50	5994
13	256812	6.40	17.59	23.83	52.18	0.58	6128	1.56	18.50	25.06	54.88	0.61	6445
14	259917	12.79	16.63	22.73	47.85	0.42	5256	3.33	18.44	25.20	53.04	0.47	5826
15	2511920	13.41	20.95	22.08	43.56	0.57	4819	3.92	23.25	24.49	48.34	0.63	5347

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.
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16	2512020	10.55	22.43	21.70	45.32	0.54	5062	2.89	24.35	23.56	49.20	0.58	5495
17	2512120	12.88	18.23	22.24	46.65	0.66	5055	4.65	19.95	24.34	51.06	0.72	5533
18	2514023	9.68	17.82	21.85	50.65	0.57	5580	2.49	19.24	23.59	54.68	0.62	6024

QUALITY ASSURANCE/QUALITY CONTROL DATA

STDALSIW-48/23	ASH	VOL	GCV	TSUL
Certified Value	10.67	20.55	76.96	9.429
Standard Deviation	0.056	0.137	2.4	0.0144
Unit:	%	%	kcal/kg	%
Analyzed value	10.70	20.47	76.95	0.623

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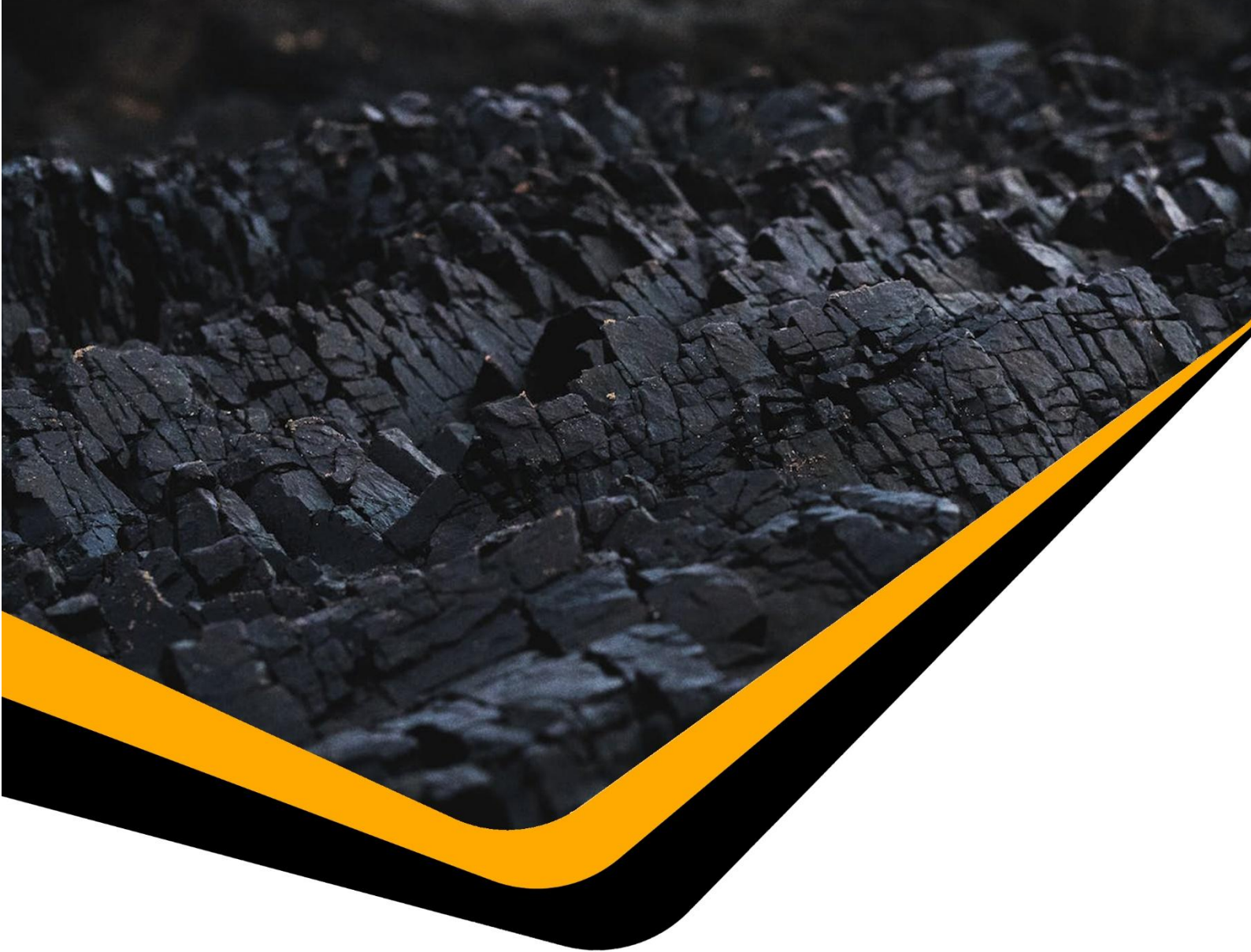
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TM, MOIS, ASH, VOL, TSUL,
GCV, CKIN

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

STANDARD METHOD		GB/T 212	GB/T 212	GB/T 212	ISO 19579	GB/T 213	GB/T 212	GB/T 212	ISO 19579	GB/T 213	GB/T 5447		
		DRY BASIS				DRY, ASH-FREE BASIS							
LAB NO.	SAMPLE NO.	Ash	Volatile	Fixed	Total	Gross	Volatile	Fixed	Total	Gross	Coal Caking Index		
		(ASH)	Matter (VOL)	Carbon (FC)	Sulphur (TSUL)	Calorific Value (GCV)	Matter (VOL)	Carbon (FC)	Sulphur (TSUL)	Calorific Value (GCV)	(CKIN)		
											5:1	3:3	
1	2423702	23.84	25.03	51.14	0.55	5627	32.86	67.14	0.72	7388	-	0	
2	2423802	21.09	26.35	52.55	0.51	5740	33.40	66.60	0.65	7275	-	0	
3	2424203	21.70	26.32	51.99	0.54	5812	33.61	66.39	0.69	7423	-	0	
4	2424303	23.70	25.90	50.40	0.52	5938	33.95	66.05	0.68	7783	-	0	
5	2424704	22.85	25.20	51.95	0.65	5927	32.66	67.34	0.84	7683	-	0	
6	2424804	24.98	24.60	50.42	0.50	5508	32.79	67.21	0.66	7342	-	0	
7	2425106	32.19	23.54	44.27	0.69	4956	34.72	65.28	1.02	7309	-	0	
8	2425206	38.38	21.58	40.04	0.61	4484	35.03	64.97	0.99	7277	-	0	
9	2439528	24.04	25.19	50.78	0.54	5629	33.15	66.85	0.71	7410	-	0	
10	2439829	14.73	28.11	57.16	0.74	6222	32.97	67.03	0.87	7297	-	0	
11	252506	19.95	25.72	54.33	0.35	6372	32.13	67.87	0.43	7960	-	1	
12	252906	21.92	24.96	53.12	0.51	6111	31.97	68.03	0.66	7827	-	0	
13	256812	18.79	25.46	55.75	0.62	6547	31.35	68.65	0.77	8062	-	4	
14	259917	19.07	26.07	54.86	0.48	6027	32.21	67.79	0.60	7447	-	0	
15	2511920	24.20	25.49	50.31	0.66	5565	33.63	66.37	0.87	7341	-	0	

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16	2512020	25.07	24.26	50.66	0.60	5659	32.38	67.62	0.80	7553	-	0
17	2512120	20.92	25.52	53.55	0.76	5803	32.28	67.72	0.96	7339	-	0
18	2514023	19.73	24.20	56.08	0.63	6178	30.14	69.86	0.79	7697	-	0



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



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



