
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

32.0

Thousand tons

THE FOLLOWING IS THE RESULT OF THE LABORATORY TESTS

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



CERTIFICATE OF ANALYSIS
24K61,K90,K104,K149,K188,K228,K243,L80,L87,25A20,A50,A114,A120,A165,A187-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. 24K61,K90,K104,K149,K188,K228,K243,L80,L87,25A20,A50,A114,A120,A165,A187-TT
NO. SAMPLES: 16
Notes/Comments: xxx

SAMPLES RECEIVED: 8/11/2024 18/01/2025
INSTRUCTIONS RECEIVED: 8/11/2024 18/01/2025
DATE OF REPORT: 9/11/2024 19/01/2025
STATUS OF REPORT: FINAL
ANALYSIS COMPLETE: 9/11/2024 19/01/2025
PREPARATION CODE: CRUSH-01, 02; MILL-01
ANALYSIS CODE: 1.1 COOKING COAL
1.2 COOKING COAL
2.1 THERMAL COAL
TM, MOIS, ASH, VOL, TSUL, GCV,
CDA, CDAH
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.	STANDARD METHOD		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	GB/T 212	GB/T 212	GB/T 212	ISO 19579	GB/T 213	GB/T 212	GB/T 212	ISO 19579
		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)	Moisture (MOIS)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)
				%			kcal/kg			%			kcal/kg			%		
1	244808	6.70	17.96	22.46	52.88	0.53	5996	1.84	18.90	23.63	55.63	0.56	6308					
2	244908	5.07	17.97	22.76	54.20	0.64	6255	1.30	18.68	23.66	56.36	0.66	6503					
3	246711	6.20	16.80	22.56	54.44	0.56	5989	2.22	17.52	23.51	56.75	0.59	6244					
4	247312	4.72	18.33	21.71	55.24	0.47	6106	1.56	18.93	22.44	57.07	0.49	6308					
5	2410916	5.42	22.35	23.80	48.44	0.67	5841	1.09	23.37	24.89	50.65	0.70	6108					
6	2414320	6.27	26.47	22.94	44.31	0.82	5216	0.60	28.07	24.33	46.99	0.87	5531					
7	2419524	10.74	19.34	23.01	46.91	0.48	5349	2.75	21.07	25.07	51.11	0.52	5828					
8	2420626	6.41	18.69	23.83	51.07	1.09	6132	1.20	19.73	25.15	53.91	1.15	6473					
9	2428509	7.51	18.38	23.30	50.81	0.78	5918	1.86	19.51	24.72	53.91	0.83	6279					
10	2429210	6.33	18.50	22.70	52.47	0.75	6143	1.25	19.50	23.93	55.32	0.79	6476					
11	25803	5.28	21.61	23.90	49.21	0.90	5939	1.21	22.54	24.93	51.33	0.93	6195					
12	252806	9.07	18.71	22.72	49.50	0.87	5691	2.08	20.15	24.46	53.31	0.93	6129					
13	256011	6.39	26.65	21.62	45.35	0.63	5273	1.40	28.07	22.77	47.76	0.67	5554					
14	257312	4.99	23.52	22.15	49.34	0.70	5859	0.84	24.55	23.12	51.50	0.73	6115					
15	259416	3.97	18.09	25.69	52.24	0.63	6443	1.01	18.65	26.48	53.86	0.65	6642					
16	2510518	4.86	22.69	23.66	48.79	0.77	5865	1.52	23.49	24.49	50.50	0.80	6071					

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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ALS GROUP LLC
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CERTIFICATE OF ANALYSIS
24K61,K90,K104,K149,K188,K228,K243,L80,L87,25A20,A50,A114,A120,A165,A187-TT

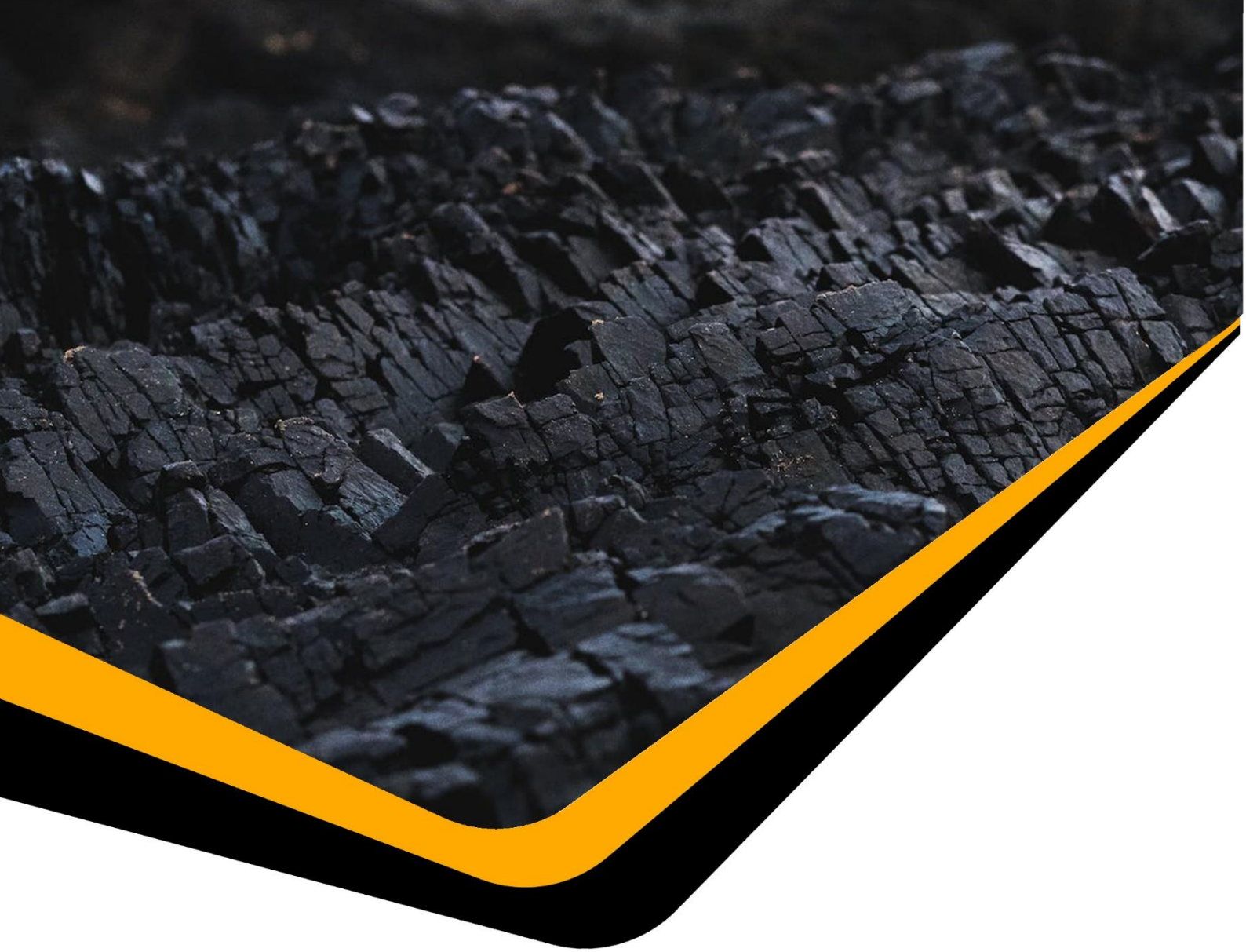
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STATUS OF REPORT: FINAL
ANALYSIS COMPLETE: 9/11/2024 19/01/2025
PREPARATION CODE: CRUSH-01, 02; MILL-01
ANALYSIS CODE: 1.1, COKING COAL
1.2, COKING COAL
2.1, THERMAL COAL
TM, MOIS, ASH, VOL, TSUL,
GCV, CSN, COK

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 5448	GB/T 5447
LAB NO.	SAMPLE NO.	DRY BASIS				DRY, ASH-FREE 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)
		%	%	%	%	kcal/kg	%	%	%	kcal/kg		5:1 3:3
1	244808	19.25	24.08	56.67	0.57	6426	29.82	70.18	0.70	7959	-	0
2	244908	18.93	23.97	57.10	0.67	6589	29.57	70.43	0.83	8127	-	11
3	246711	17.91	24.05	58.04	0.60	6385	29.30	70.70	0.73	7779	-	0
4	247312	19.23	22.79	57.98	0.49	6408	28.22	71.78	0.61	7934	-	0
5	2410916	23.63	25.16	51.21	0.71	6175	32.95	67.05	0.92	8085	-	14
6	2414320	28.24	24.48	47.28	0.88	5565	34.11	65.89	1.22	7755	-	7
7	2419524	21.66	25.78	52.55	0.54	5993	32.91	67.09	0.69	7651	-	0
8	2420626	19.97	25.46	54.57	1.16	6552	31.81	68.19	1.45	8187	2.0	27
9	2428509	19.88	25.19	54.93	0.84	6398	31.44	68.56	1.05	7985	-	14
10	2429210	19.75	24.24	56.02	0.80	6558	30.20	69.80	1.00	8172	-	16
11	25803	22.81	25.23	51.96	0.95	6271	32.69	67.31	1.23	8124	20	-
12	252806	20.58	24.98	54.44	0.95	6259	31.46	68.54	1.20	7881	-	4
13	256011	28.47	23.09	48.44	0.68	5633	32.28	67.72	0.95	7875	-	0
14	257312	24.75	23.32	51.93	0.74	6167	30.98	69.02	0.98	8196	-	16
15	259416	18.84	26.75	54.40	0.66	6710	32.96	67.04	0.81	8267	34	-
16	2510518	23.85	24.87	51.28	0.81	6165	32.66	67.34	1.07	8096	-	15

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ISO 14001:2015



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Чингэлтэй дүүрэг,
Улаанбаатар хот

