
COAL QUALITY SPECIFICATION

Nº ETT_SP_SSC



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



COAL STOCKPILES QUALITY (weighted average)

TOTAL
MOISTURE (ar)

4.0%

(-1.0; +2.0)

ASH (db)

23.5%

(-5.0; +5.0)

VOLATILE
MATTER (daf)

33.0%

(-1.5; +1.5)

TOTAL SULPHUR (db)

1.1%

(-0.5; +0.5)

G INDEX

70.0

(-5.0; +10.0)

QUANTITY

64.0

THOUSAND TONS

THE FOLLOWING IS THE RESULT OF THE LABORATORY TESTS

ALS GROUP LLC
Mongol National Building, 2nd floor
Chinggis Avenue, Khan-Uul District
Ulaanbaatar, Mongolia
Tel: +976 76 907887



CERTIFICATE OF ANALYSIS
24L225,25A166,A187,A319,B31,C88,C102,C214,C238,D26,D61,D145,D182-TT

CUSTOMER: Erdenes Tavan Tolgoi JSC
ADDRESS: Finance Center, Jigjidaev-8
1st khoroov, Chingeltei District
Ulaanbaatar, Mongolia
ATTN: Erihembayar.M
PROJECT NO. xxx
LAB. JOB NO. 24L225,25A166,A187,A319,B31,C88,C102,C214,C238,D26,D61,D145,D182-TT
NO. SAMPLES: 3
Notes/Comments: xxx

SAMPLES RECEIVED: 23/12/2024 17:04/2025
INSTRUCTIONS RECEIVED: 23/12/2024 17:04/2025
DATE OF REPORT: 24/12/2024 18:04/2025
STATUS OF REPORT: FINAL
ANALYSIS COMPLETE: 24/12/2024 18:04/2025
PREPARATION CODE: 64P001 CODE: 64001
ANALYSIS CODE: 1.2 COKING COAL
VTA-MONS-ASH-ACC-
TSUL-SULPH-GRIN
APPROVED BY:
Quality Manager
CHECKED BY: Chief Chemist

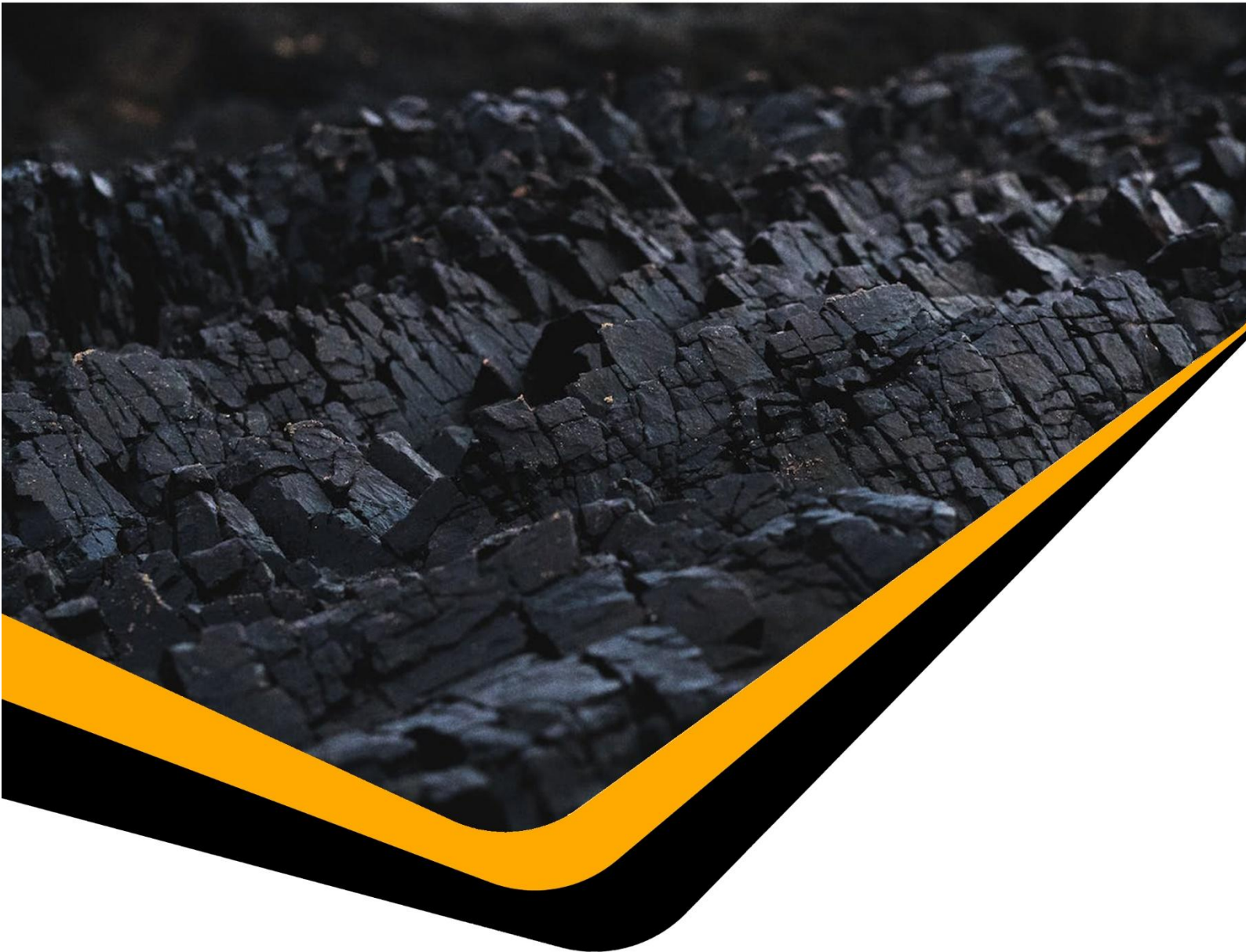
These test results are representative only of the sample received in the laboratory.

STANDARD METHOD		AS RECEIVED BASIS										AIR DRIED BASIS										DRY BASIS										DRY, ASH-FREE BASIS									
LAB NO.	SAMPLE NO.	GB/T 211		GB/T 212		GB/T 212		ISO 1578		GB/T 212		GB/T 212		ISO 1578		GB/T 212		GB/T 212		ISO 1578		GB/T 212		GB/T 212		ISO 1578		GB/T 212		GB/T 212		ISO 1578		GB/T 5448		GB/T 5447					
		Total Moisture (TM)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon	Total Sulphur (TSUL)	Moisture (MOIS)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon	Total Sulphur (TSUL)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon	Total Sulphur (TSUL)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon	Total Sulphur (TSUL)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon	Total Sulphur (TSUL)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon	Total Sulphur (TSUL)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon	Total Sulphur (TSUL)	Cresible Swelling Number (CSN)	Coal Caking Index (CKIN)								
1	2437223	3.54	23.75	23.83	48.88	1.48	0.71	24.44	24.53	50.31	1.53	24.62	24.71	50.67	1.54	32.78	67.22	2.04	4.5	57																					
2	259516	2.17	24.22	24.26	49.35	1.31	0.50	24.63	24.68	50.19	1.34	24.76	24.80	50.44	1.34	32.96	67.04	1.79	4.0	53																					
3	2510618	3.34	24.05	24.42	48.19	1.02	0.67	24.72	25.09	49.52	1.05	24.89	25.26	49.85	1.05	33.63	66.37	1.40	4.0	55																					
4	2522631	2.72	24.23	23.17	49.89	0.72	0.50	24.78	23.70	51.02	0.74	24.91	23.82	51.28	0.74	31.71	68.29	0.99	3.0	40																					
5	2522731	3.33	22.53	24.15	50.01	0.67	0.67	23.14	24.81	51.38	0.69	23.29	24.98	51.73	0.69	32.56	67.44	0.90	3.0	37																					
6	2522831	4.07	20.42	23.80	51.71	0.81	0.72	21.13	24.63	53.51	0.83	21.29	24.81	53.90	0.84	31.52	68.48	1.07	2.0	20																					
7	2527004	3.27	22.70	23.92	50.10	0.96	0.60	23.33	24.58	51.48	0.99	23.47	24.73	51.80	0.99	32.32	67.68	1.30	3.5	46																					
8	2527104	3.63	21.10	24.28	50.99	0.74	0.67	21.74	25.03	52.55	0.77	21.89	25.50	52.91	0.77	32.26	67.74	0.99	3.5	47																					
9	2542908	1.73	19.49	25.75	53.03	0.74	0.59	19.72	26.05	53.65	0.75	19.84	26.20	53.96	0.75	32.48	67.52	0.94	3.0	45																					
10	2542908	1.69	25.53	24.46	50.32	1.13	0.63	23.78	24.72	50.87	1.14	23.93	24.88	51.19	1.14	32.71	67.29	1.51	3.5	47																					
11	2543008	3.84	21.37	26.29	48.49	0.56	0.75	22.06	27.14	50.05	0.58	22.23	27.34	50.43	0.59	35.16	64.84	0.75	2.0	27																					
12	2543108	2.96	20.30	26.20	50.54	0.96	0.69	20.77	26.81	51.72	0.98	20.92	27.00	52.08	0.99	34.14	65.86	1.25	5.0	59																					
13	2543108	1.65	25.06	26.03	47.27	1.06	0.59	25.33	26.31	47.78	1.07	25.47	26.46	48.06	1.08	35.51	64.49	1.45	4.5	54																					
14	2573620	2.09	25.86	25.42	46.62	1.08	0.59	26.26	25.81	47.34	1.10	26.41	25.97	47.62	1.10	35.29	64.71	1.50	4.0	53																					
15	2573723	1.58	25.58	25.80	47.04	0.95	0.57	25.84	26.07	47.52	0.96	25.99	26.22	47.79	0.97	35.42	64.58	1.30	4.5	59																					
16	2583902	2.54	21.11	26.14	50.22	0.76	0.55	21.54	26.67	51.24	0.78	21.66	26.82	51.52	0.78	34.23	65.77	1.00	4.5	54																					
17	2586505	2.33	18.44	25.58	53.65	0.97	0.61	18.77	26.03	54.60	0.99	18.88	26.19	54.93	0.99	32.28	67.72	1.22	3.5	49																					
18	2592014	1.87	16.94	27.59	53.61	0.99	0.83	17.12	27.88	54.18	1.01	17.26	28.11	54.63	1.01	33.97	66.03	1.23	5.0	65																					
19	2592174	2.02	19.72	26.43	51.83	0.98	0.74	19.98	26.77	52.51	1.00	20.13	26.97	52.96	1.01	33.77	66.23	1.26	5.0	64																					
20	2595417	2.76	21.37	25.53	50.34	1.04	0.77	21.81	26.05	51.37	1.06	21.98	26.25	51.77	1.07	33.85	66.15	1.37	5.5	65																					
21	2595417	2.69	23.45	25.37	48.49	1.03	0.84	23.89	25.85	49.42	1.05	24.10	26.07	49.83	1.06	34.35	65.65	1.39	4.5	55																					
22	2595517																																								

QUALITY ASSURANCE/QUALITY CONTROL DATA

STDALSW-50/23	ASH	VOL	TSUL
Certified Value	19.67	20.45	0.620
Standard Deviation	0.058	0.137	0.0144
Unit	%	%	%
Analysed value	10.09	20.54	0.623

This is the Final Report and encompasses 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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ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



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1800-1072



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

