
COAL QUALITY SPECIFICATION

Nº ETT_SP_SSC



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



AVERAGE QUALITY OF COAL STOCKPILE

<p>TOTAL MOISTURE (ar)</p> <p>3.2%</p> <p>(-2.0; +2.0)</p>	<p>ASH (db)</p> <p>18.5%</p> <p>(-5.0; +5.0)</p>	<p>VOLATILE (daf)</p> <p>33.0%</p> <p>(-2.0; +2.0)</p>
<p>TOTAL SULFUR (db)</p> <p>1.1%</p> <p>(-0.5; +0.5)</p>	<p>G INDEX</p> <p>5:1</p> <p>75.0</p> <p>(-10; +10)</p>	<p>CAPACITY OF STOCKPILE</p> <p>204.8</p> <p>THOUSAND TONNES</p>

CERTIFICATE OF ANALYSES

ALS GROUP LLC
Mongol National Building, 2nd Khoroos
Chinggis Avenue, Khan-Uul District
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Tel +976 70 007647



CERTIFICATE OF ANALYSIS
23F136,149, 145-TT, 23G03, 06, 13, 25, 32, 48, 81, 83, 88, 91-TT

CLIENT: Erdenes Tavan Tolgoi JSC
ADDRESS: Finance Center, Jigjidjav-8
1st Khoroos, Chinggis District
Ulaanbaatar, Mongolia
ATTN: Bilguunmantul.S
PROJECT NO. xxx
LAB. JOB NO. 23F136,149, 145-TT, 23G03, 06, 13, 25, 32, 48, 81, 83, 88, 91-TT
NO. SAMPLES: 21
Notes/Comments: xxx

SAMPLES RECEIVED: 27/Jun/23
INSTRUCTIONS RECEIVED: 27/Jun/23
DATE OF REPORT: 28/Jun/23
STATUS OF REPORT: FINAL
ANALYSIS COMPLETE: 28/Jun/23
PREPARATION CODE: CRUSH-01, 02; MLL-01
ANALYSIS CODE: 1. COKING COAL
TM, ASH, MOIS, VOL,
TSUL, CSN, CWIN
APPROVED BY: [Signature]
Quality Manager
CHECKED BY: Chief Chemist

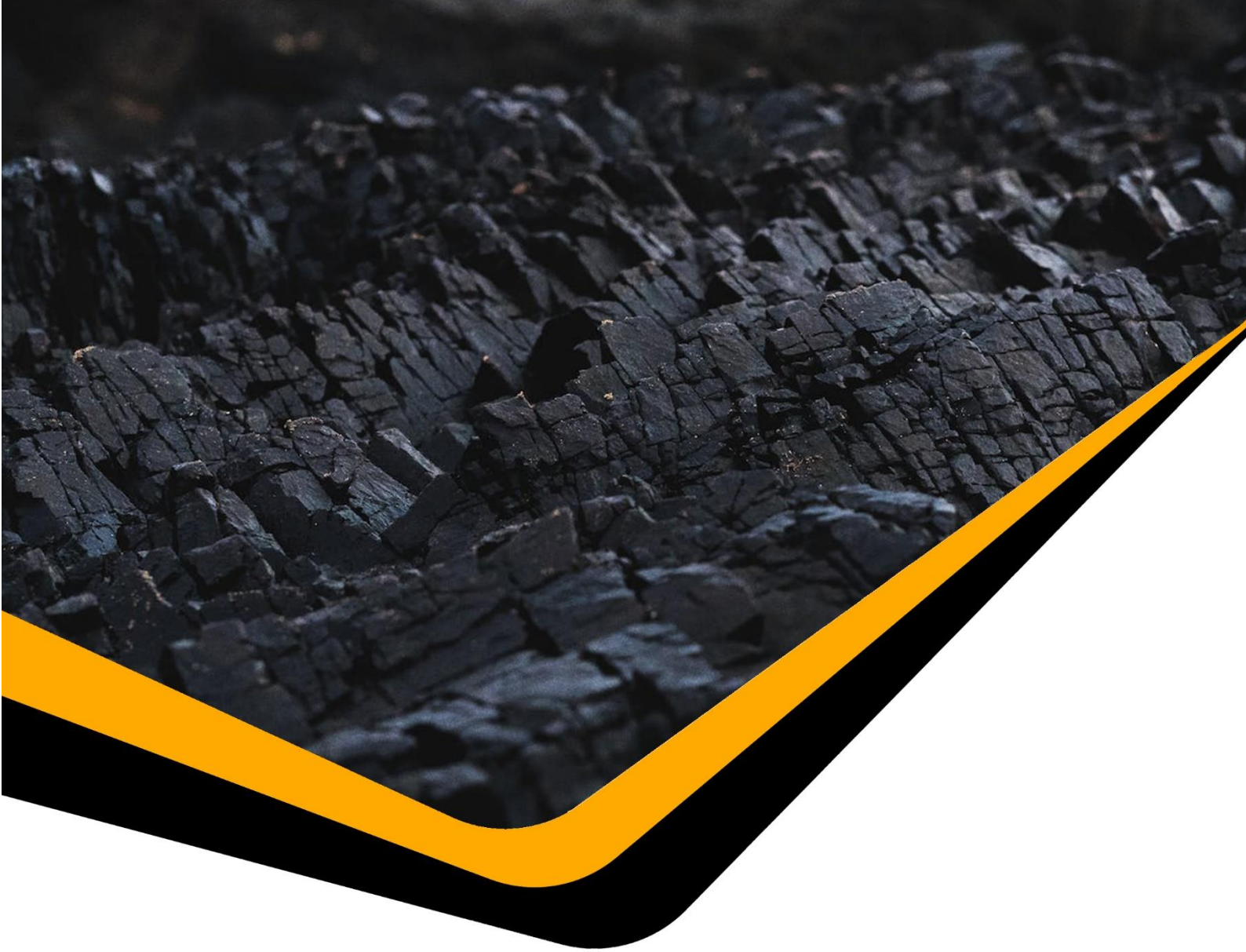
These test results are representative only of the sample received in the laboratory.

LAB NO.	SAMPLE NO.	AS RECEIVED BASIS											AIR DRIED BASIS											DRY BASIS											Crucible Swelling Number (CSN)	Coal Caking Index (CKIN)	
		Total Moisture (TM)	Ash (ASH)	Volatiles Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Moisture (MOIS)	Ash (ASH)	Volatiles Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Ash (ASH)	Volatiles Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Ash (ASH)	Volatiles Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Ash (ASH)	Volatiles Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	5:1	3:3												
1	ETT_SP_20011-1A	2.91	11.76	28.91	56.43	0.64	0.92	12.00	29.50	57.59	0.66	12.11	29.77	58.12	0.66	33.87	66.13	0.75	77	-																	
2	ETT_SP_20011-1B	2.77	12.71	28.68	55.84	0.59	0.89	12.95	29.23	56.93	0.60	13.07	29.49	57.44	0.60	33.93	66.07	0.69	68	-																	
3	ETT_SP_20011-1C	2.95	14.56	28.56	53.93	0.87	0.87	14.87	29.18	55.08	0.89	15.00	29.43	55.37	0.90	34.63	65.37	1.05	71	-																	
4	ETT_SP_20011-2A	5.20	11.98	27.26	55.56	0.40	1.30	12.47	28.38	57.84	0.41	12.64	28.76	58.67	0.42	32.92	67.08	0.48	3.0	49																	
5	ETT_SP_20011-2B	2.24	13.59	28.60	55.57	0.83	0.73	13.80	29.05	54.42	0.84	13.90	29.26	56.84	0.84	33.98	66.02	0.98	6.0	72																	
6	ETT_SP_20011-2C	2.50	15.20	28.32	53.98	0.90	0.71	15.48	28.84	54.98	0.91	15.59	29.04	55.37	0.92	34.41	65.59	1.09	6.0	74																	
7	ETT_SP_20011-3A	2.55	11.32	28.31	57.82	0.75	0.71	11.53	28.84	58.91	0.76	11.62	29.05	59.33	0.77	32.87	67.13	0.87	6.0	73																	
8	ETT_SP_20011-3B	3.49	12.44	29.46	54.61	0.70	0.86	12.78	30.26	56.10	0.72	12.89	30.53	56.59	0.73	35.04	64.96	0.84	7.0	77																	
9	ETT_SP_20011-3C	2.93	14.13	28.64	54.30	0.45	0.85	14.43	29.25	55.47	0.46	14.56	29.50	55.94	0.46	34.53	65.47	0.54	7.5	86																	
10	ETT_SP_20011-4A	3.28	11.36	29.45	55.91	0.77	0.74	11.66	30.22	57.37	0.79	11.75	30.45	57.80	0.80	34.80	65.50	0.91	6.5	77																	
11	ETT_SP_20011-4B	5.51	8.16	27.90	58.42	0.50	0.88	8.56	29.27	61.28	0.53	8.64	29.53	61.83	0.53	32.32	67.68	0.58	6.5	78																	
12	ETT_SP_20011-4C	4.45	10.03	29.14	56.38	0.54	1.05	10.39	30.17	58.39	0.56	10.50	30.49	59.01	0.57	34.07	65.93	0.63	7.0	84																	
13	ETT_SP_20011-5A	3.03	8.43	28.90	59.44	0.71	0.63	8.64	29.62	61.11	0.73	8.69	29.81	61.50	0.73	32.65	67.35	0.80	6.5	80																	
14	ETT_SP_20011-5B	2.57	9.59	28.76	59.08	0.65	1.05	9.74	29.20	60.00	0.66	9.84	29.52	60.64	0.67	32.74	67.26	0.74	7.0	79																	
15	ETT_SP_20011-5C	2.95	10.86	27.94	58.24	0.71	1.15	11.06	28.46	59.33	0.73	11.19	28.79	60.02	0.73	32.42	67.58	0.83	6.5	75																	
16	ETT_SP_20011-6A	2.54	13.04	29.34	55.07	0.54	1.23	13.22	29.73	55.81	0.54	13.38	30.11	56.51	0.55	34.76	65.24	0.64	6.5	79																	
17	ETT_SP_20011-6B	4.01	11.67	29.16	55.16	0.61	1.89	12.04	30.06	56.87	0.63	12.16	30.38	57.46	0.64	34.58	65.42	0.73	6.5	83																	
18	ETT_SP_20011-6C	3.85	11.16	29.20	55.79	0.71	1.07	11.48	30.04	57.43	0.73	11.61	30.37	58.03	0.74	34.35	65.45	0.84	6.5	81																	
19	ETT_SP_20011-7A	2.45	11.89	29.65	56.00	0.71	0.53	12.13	30.24	57.11	0.72	12.19	30.40	57.41	0.72	34.62	65.38	0.82	6.5	83																	
20	ETT_SP_20011-7C	2.41	11.23	29.80	56.56	0.68	0.52	11.45	30.37	57.66	0.70	11.51	30.53	57.96	0.70	34.50	65.50	0.79	6.5	86																	
21	ETT_SP_20011-7B	2.49	12.72	29.36	55.43	0.63	0.88	12.93	29.85	56.34	0.64	13.05	30.11	56.84	0.65	34.63	65.37	0.75	6.5	78																	

QUALITY ASSURANCE/QUALITY CONTROL DATA

STANDARD	ASH	VOL	TSUL
ISO 15725:2010 Certified Value	18.88	33.13	0.616
Standard Deviation	0.05	0.16	0.017
Unit	%	%	%
Analyzed value	18.63	33.20	0.619

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



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

