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# COAL QUALITY SPECIFICATION

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Nº ETT\_SP\_CC

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ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



### COAL STOCKPILE QUALITY (Weighted average)

<b>Inherent moisture</b> IM (ad) <b>1.0%</b>	<b>Ash (db)</b> <b>13.0%</b> (-3.0; +3.0)	<b>Volatile matter</b> VM (daf) <b>26.0%</b> (-2.0; +2.0)
<b>Total sulphur</b> S (ad) <b>≤1.5%</b>	<b>G-index</b> <b>≥75.0</b>	<b>Quantity</b> <b>480.0</b> Thousand tons

The following is the result of the laboratory test.

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**CERTIFICATE OF ANALYSIS**  
 23F127, 131, 137, 140, 144-TT

**CLIENT:** Erdenes Tavan Tolgoi JSC  
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**ATTN:** Бйгүүмандас  
**PROJECT NO.:** xxx  
**LAB. JOB NO.:** 23F127, 131, 137, 140, 144-TT  
**NO. SAMPLES:** 15  
**Notes/Comments:** xxx

**SAMPLES RECEIVED:** 25-29/04/2023  
**INSTRUCTIONS RECEIVED:** 25-29/05/2023  
**DATE OF REPORT:** 26-30/05/2023  
**STATUS OF REPORT:** FINAL  
**ANALYSIS COMPLETE:** 26-30/05/2023  
**PREPARATION CODE:** CRUSH-01, S2, MLL-01  
**ANALYSIS CODE:** 1. COKING COAL CSN  
 TM, ASH, MOB, VOL,  
 TSUL, CSN, CRN

**APPROVED BY:** Laboratory Manager  
  
**CHECKED BY:** Chief Chemist

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

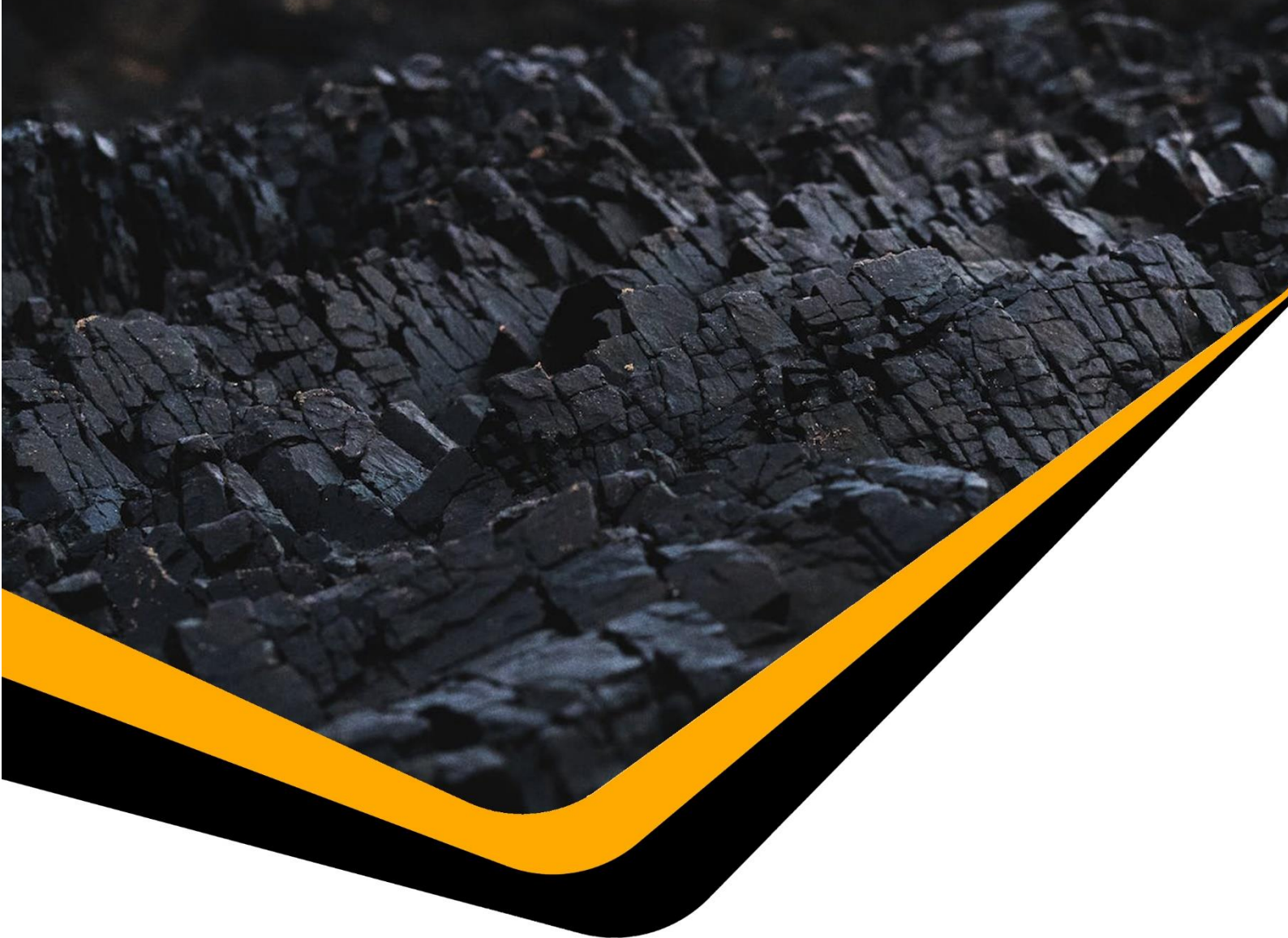
LAB NO.	SAMPLE NO.	STANDARD METHOD															Crucible Swelling Number (CSN)	Coal Caking Index (CCKI)			
		AS RECEIVED BASIS					AIR DRIED BASIS					DRY BASIS						G/B/T 5448	G/B/T 5447		
		Total Moisture (TM)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Moisture (MOIS)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Fixed Carbon (FC)	Total Sulphur (TSUL)		Crucible Swelling Number (CSN)	B-I	B-II
1	ETT_SP_10054-1A	1.86	12.28	21.19	64.67	0.71	0.59	12.68	21.47	65.59	0.72	12.51	21.99	63.89	0.73	24.68	75.32	0.93	6.5	74	--
2	ETT_SP_10054-1B	3.66	9.12	22.17	65.05	0.61	0.59	9.41	22.87	67.13	0.63	9.47	23.51	67.53	0.64	25.41	74.59	0.70	6.5	78	--
3	ETT_SP_10054-1C	2.87	10.83	22.04	64.28	0.90	0.54	11.09	22.57	65.90	0.92	11.15	22.89	66.16	0.93	25.54	74.46	1.05	6.5	82	--
4	ETT_SP_10054-2A	1.82	11.83	21.29	65.96	0.84	0.43	11.99	21.38	65.99	0.85	12.04	21.67	66.29	0.86	24.64	75.36	0.97	6.5	77	--
5	ETT_SP_10054-2B	1.95	12.02	21.93	64.19	0.59	0.44	12.21	22.26	65.09	0.59	12.26	22.36	65.38	0.59	25.49	74.51	0.67	6.5	75	--
6	ETT_SP_10054-2C	1.71	8.01	22.97	66.21	0.69	0.49	8.11	24.18	67.15	0.69	8.15	24.39	67.46	0.69	24.54	73.48	0.76	7.0	91	--
7	ETT_SP_10054-3A	2.74	12.07	22.34	62.84	0.86	0.55	12.38	22.85	64.36	0.88	12.41	22.97	64.62	0.88	24.23	75.77	1.01	6.5	83	--
8	ETT_SP_10054-3B	2.77	10.41	22.19	64.63	0.84	0.53	10.65	22.70	66.12	0.86	10.71	22.82	66.47	0.87	25.54	74.44	0.97	6.5	80	--
9	ETT_SP_10054-3C	3.21	10.53	21.46	64.70	0.58	0.51	10.83	22.28	64.58	0.60	10.89	22.39	64.92	0.60	24.91	75.99	0.67	6.5	78	--
10	ETT_SP_10054-4A	1.94	10.81	21.93	65.31	0.58	0.44	10.99	22.27	66.30	0.57	11.02	22.37	66.61	0.57	25.14	74.86	0.64	6.5	80	--
11	ETT_SP_10054-4B	2.07	10.93	21.98	65.06	0.75	0.48	11.11	22.34	66.07	0.73	11.17	22.44	66.39	0.74	25.26	74.74	0.83	6.5	82	--
12	ETT_SP_10054-4C	1.92	9.30	22.83	65.94	0.55	0.49	9.44	23.18	66.91	0.55	9.49	23.28	67.24	0.56	25.71	74.79	0.61	7.0	88	--
13	ETT_SP_10054-5A	1.03	13.02	22.40	63.56	0.71	0.41	13.10	22.54	63.95	0.71	13.15	22.63	64.21	0.72	24.06	73.94	0.82	6.5	77	--
14	ETT_SP_10054-5B	1.09	13.89	22.29	62.77	0.68	0.39	13.99	22.45	63.17	0.68	14.04	22.54	63.42	0.69	26.22	72.78	0.80	6.5	79	--
15	ETT_SP_10054-5C	1.39	12.84	22.46	63.59	0.71	0.42	12.94	22.64	64.00	0.72	12.98	22.74	64.27	0.72	26.13	72.87	0.82	6.5	83	--

**QUALITY ASSURANCE/QUALITY CONTROL DATA**

STDALWS-23/29	ASH	VOL	TSUL
Certified Value	10.85	18.18	0.619
Standard Deviation	0.05	0.16	0.017
(n=4)	%	%	%
Analysed value	10.85	18.18	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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