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# НҮҮРСНИЙ ОВООЛГЫН ҮЗҮҮЛЭЛТ

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№ ETT\_SP\_75



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



НҮҮРСНИЙ ОВООЛГЫН ЧАНАРЫН ДУНДАЖ ҮЗҮҮЛЭЛТ

НИЙТ ЧИЙГ (ar)

**2.27%**

(-1.0; +1.0)

ҮНСЛЭГ (db)

**21.2%**

(-4.0; +4.0)

ДЭГДЭМХИЙ (daf)

**33.06%**

(-1.3; +1.3)

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НИЙТ ХҮХЭР (db)

**1.07%**

(-0.2; +0.3)

БАРЬЦАЛДАХ  
ЧАНАР

**79.0**

(-11; +7.0)

НҮҮРСНИЙ  
ХЭМЖЭЭ

**160.0**

МЯН.ТН

НҮҮРСНИЙ ОВООЛГЫН ШИНЖИЛГЭЭНИЙ ҮР ДҮН

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



CERTIFICATE OF ANALYSIS  
23172; 231122; 231205; 231224; 23J31; 23J52; 23J82; 23J176; 23J234; 23J243-TT

CLIENT: Erdenes Tavan Tolgoi JSC  
ADDRESS: Finance Center, Jigjidjav-8  
1st khoroо, Chingeltei District  
Ulaanbaatar, Mongolia  
ATTN: Munkhkhul.G  
PROJECT NO. xxx  
LAB. JOB NO. 23172; 231122; 231205; 231224; 23J31; 23J52; 23J82; 23J176; 23J234; 23J243-TT  
NO. SAMPLES: 25  
Notes/Comments: xxx

SAMPLES RECEIVED: 30/Oct-9/Sep/2023  
INSTRUCTIONS RECEIVED: 30/Oct-9/Sep/2023  
DATE OF REPORT: 31/Oct-10/Sep/2023  
STATUS OF REPORT: FINAL  
ANALYSIS COMPLETE: 31/Oct-10/Sep/2023  
PREPARATION CODE: CRUSH-01.02; MILL-01  
ANALYSIS CODE: 1. COKING COAL, CSN  
TM. ASH, MOIS, VOL,  
TSUL, COK  
APPROVED BY: Laboratory Manager  
CHECKED BY: Chief Chemist

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

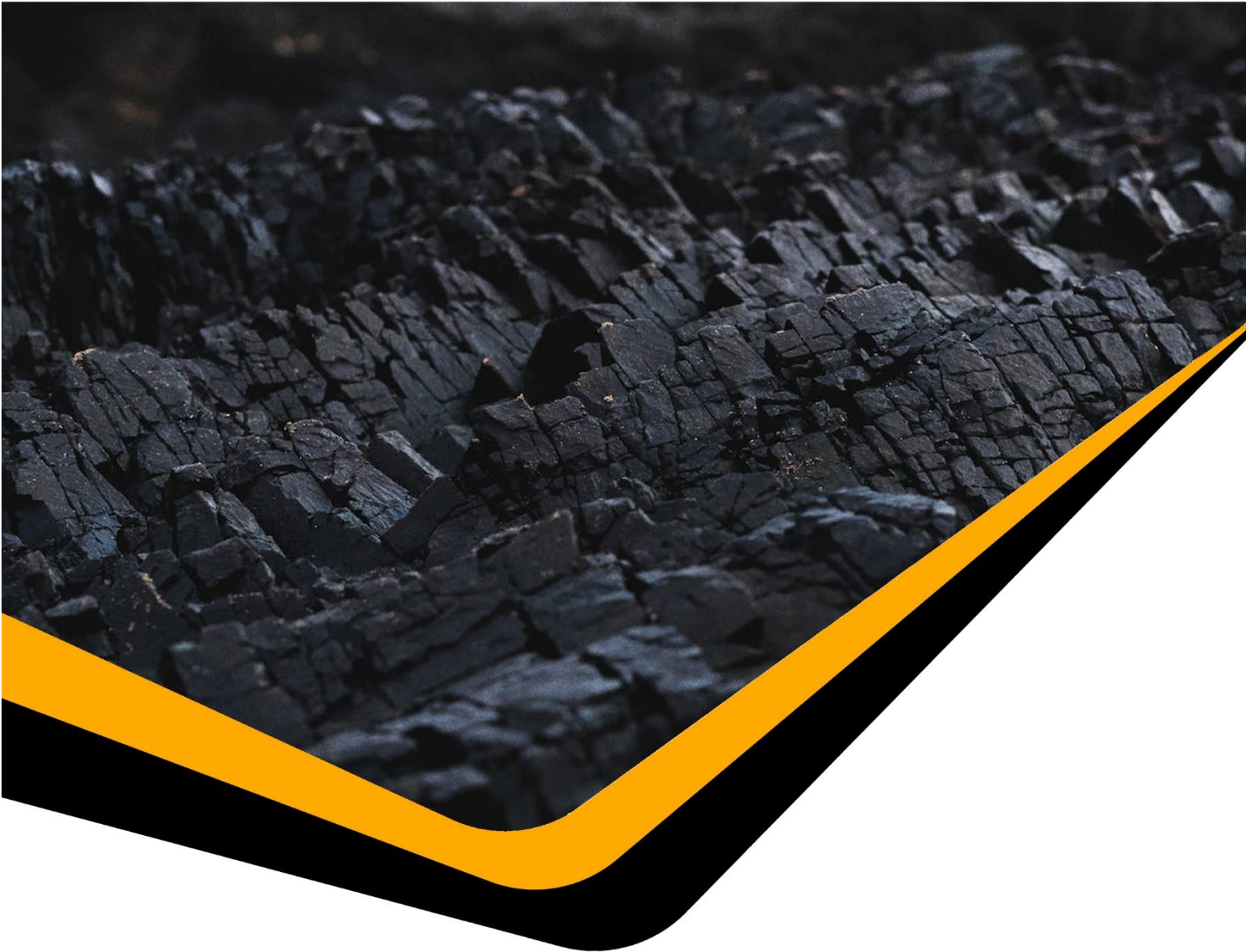
LAB NO.	SAMPLE NO.	AS RECEIVED BASIS				AIR DRIED BASIS				DRY BASIS				DRY, ASH-FREE BASIS				Crucible Swelling Number (CSN)	Coal Caking Index (COKIN)		
		Total Moisture (TM)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Moisture (MOIS)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Fixed Carbon (FC)	Total Sulphur (TSUL)		5:1	3:3	
1	ETT_SP_10075-1A	1.37	19.12	26.02	53.50	0.81	0.49	19.29	26.25	53.97	0.82	19.38	26.38	54.24	0.83	32.72	67.28	1.02	6.5	82	-
2	ETT_SP_10075-1B	1.49	20.07	25.85	52.59	1.04	0.75	20.22	26.04	52.99	1.05	20.37	26.24	53.39	1.06	32.95	67.05	1.33	6.5	78	-
3	ETT_SP_10075-1C	2.45	19.59	24.94	53.02	1.12	0.98	19.89	25.31	53.82	1.14	20.08	25.56	54.35	1.15	31.99	68.01	1.44	6.0	68	-
4	ETT_SP_10075-1D	1.92	22.79	25.02	50.26	1.16	0.73	23.07	25.33	50.87	1.17	23.24	25.51	51.25	1.18	33.24	66.76	1.54	6.5	74	-
5	ETT_SP_10075-1E	1.80	22.84	24.63	50.74	0.91	0.66	23.10	24.91	51.33	0.92	23.26	25.08	51.67	0.93	32.68	67.32	1.21	6.5	78	-
6	ETT_SP_10075-2A	2.30	22.56	23.94	51.20	0.68	0.79	22.91	24.31	51.99	0.69	23.09	24.50	52.41	0.70	31.88	68.14	0.91	6.0	73	-
7	ETT_SP_10075-2B	2.20	20.88	24.44	52.47	0.65	0.76	21.19	24.80	53.25	0.66	21.35	24.99	53.65	0.67	31.78	68.22	0.85	6.0	74	-
8	ETT_SP_10075-2C	2.06	20.46	24.72	52.75	0.78	0.71	20.75	25.06	53.48	0.79	20.90	25.24	53.86	0.80	31.91	68.09	1.01	6.0	77	-
9	ETT_SP_10075-2D	2.13	23.26	24.05	50.58	0.65	0.76	23.59	24.39	51.27	0.66	23.77	24.57	51.66	0.66	32.23	67.77	0.87	6.5	78	-
10	ETT_SP_10075-2E	1.96	24.48	23.70	49.85	0.58	0.76	24.76	23.99	50.46	0.59	24.97	24.18	50.65	0.59	32.23	67.77	0.79	6.5	75	-
11	ETT_SP_10075-3A	1.38	20.41	25.98	52.03	1.06	0.60	20.77	26.18	52.44	1.07	20.90	26.34	52.76	1.08	33.30	66.70	1.36	6.5	81	-
12	ETT_SP_10075-3B	1.69	19.53	26.46	52.32	1.23	0.68	19.73	26.73	52.86	1.24	19.86	26.92	53.22	1.25	33.59	66.41	1.56	6.5	80	-
13	ETT_SP_10075-3C	2.32	18.59	27.03	52.06	1.36	0.83	18.87	27.44	52.85	1.39	19.03	27.67	53.29	1.40	34.18	65.82	1.73	6.5	85	-
14	ETT_SP_10075-3D	2.92	22.78	25.50	48.80	1.41	0.74	23.29	26.07	49.90	1.44	23.46	26.27	50.27	1.45	34.32	65.69	1.90	6.5	77	-
15	ETT_SP_10075-3F	2.75	18.91	26.57	51.77	1.44	0.79	19.29	27.11	52.82	1.47	19.44	27.33	53.24	1.48	33.92	66.08	1.83	6.5	81	-
16	ETT_SP_10075-4A	2.98	23.72	24.79	48.51	1.07	0.68	24.28	25.39	49.67	1.10	24.45	25.56	50.00	1.11	33.82	66.18	1.46	6.0	75	-
17	ETT_SP_10075-4B	2.82	19.50	25.53	52.15	0.85	0.62	19.94	26.11	53.83	0.87	20.06	26.28	53.64	0.87	32.97	67.13	1.09	6.5	81	-
18	ETT_SP_10075-4C	3.15	17.25	26.66	52.94	0.93	0.67	17.69	27.34	54.30	0.95	17.81	27.52	54.66	0.96	33.49	66.51	1.16	6.5	86	-
19	ETT_SP_10075-4D	2.23	17.61	26.25	53.91	1.87	0.65	17.90	26.68	54.78	1.90	18.02	26.85	55.13	1.91	32.75	67.25	2.33	6.5	85	-
20	ETT_SP_10075-4E	3.22	15.11	26.42	55.25	0.97	0.62	15.52	27.13	56.73	0.99	15.61	27.30	57.08	1.00	32.35	67.65	1.19	6.5	85	-
21	ETT_SP_10075-5A	2.24	20.15	26.42	51.18	1.20	0.46	20.52	26.90	52.12	1.22	20.62	27.03	52.36	1.22	34.04	65.96	1.54	6.5	82	-
22	ETT_SP_10075-5B	2.29	21.33	25.83	50.55	1.22	0.44	21.73	26.32	51.51	1.24	21.83	26.43	51.74	1.25	33.81	66.19	1.59	6.5	81	-
23	ETT_SP_10075-5C	2.47	23.89	25.24	48.40	1.23	0.40	24.40	25.78	49.42	1.25	24.50	25.88	49.62	1.26	34.20	65.72	1.67	6.5	77	-
24	ETT_SP_10075-5D	3.12	20.89	25.82	50.17	1.07	0.42	21.47	26.54	51.57	1.10	21.57	26.65	51.79	1.10	33.98	66.02	1.41	6.5	80	-
25	ETT_SP_10075-5E	2.76	20.35	26.29	50.61	1.28	0.52	20.82	26.89	51.77	1.31	20.93	27.03	52.04	1.31	34.19	65.81	1.66	6.5	80	-

QUALITY ASSURANCE/QUALITY CONTROL DATA

STD/SHS-30/21	ASH	VOL	TSUL
Certified Value	10.20	20.35	0.606
Standard Deviation	0.059	0.284	0.0136
Unit	%	%	%
Analyzed value	10.67	20.33	0.606

This is the Final Report and represents my 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





ISO 45001:2018



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ISO 14001:2015



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

