



НҮҮРСНИЙ ОВООЛГЫН ҮЗҮҮЛЭЛТ

№ ETT_SP_SSC



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



НҮҮРСНИЙ ОВООЛГЫН ЧАНАРЫН ДУНДАЖ ҮЗҮҮЛЭЛТ

НИЙТ ЧИЙГ (ar)

3.12%

(-0.8; +0.8)

ҮНСЛЭГ (db)

24.5%

(-5.0; +5.0)

ДЭГДЭМХИЙ (daf)

33.0%

(-1.5; +1.5)

НИЙТ ХҮХЭР (db)

1.1%

(-0.5; +0.5)

БАРЬЦАЛДАХ ЧАНАР

70.0

(-5.0; +10.0)

НҮҮРСНИЙ ХЭМЖЭЭ

128.0

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 907660



CERTIFICATE OF ANALYSIS
23172, 1169, J52, J243, K43, L78, 24A44, A89, A153, A173, A197, A225-TT

CLIENT: Erdenes Tavan Tolgoi JSC
ADDRESS: Finance Center, Jigjidjan-8
1st Khoroо, Chingelhal District
Ulaanbaatar, Mongolia
ATTN: Munkhtuu.G
PROJECT NO.: xxx
LAB. JOB NO.: 23172, 1169, J52, J243, K43, L78, 24A44, A89, A153, A173, A197, A225-TT
NO. SAMPLES: 25
Notes/Comments: xxx

SAMPLES RECEIVED: 09/Sep/23 27/Jan/24
INSTRUCTIONS RECEIVED: 09/Sep/23 27/Jan/24
DATE OF REPORT: 10/Sep/23 28/Jan/24
STATUS OF REPORT: FINAL
ANALYSIS COMPLETE: 10/Sep/23 28/Jan/24
PREPARATION CODE: CRUSH-01, 02; MILL 01
ANALYSIS CODE: LOADING CGAL, CBN
TM, ASH, MOIS, VOL,
TSUL, CKN

APPROVED BY: Laboratory Manager

Quality Manager: *[Signature]*
CHECKED BY: Chief Chemist

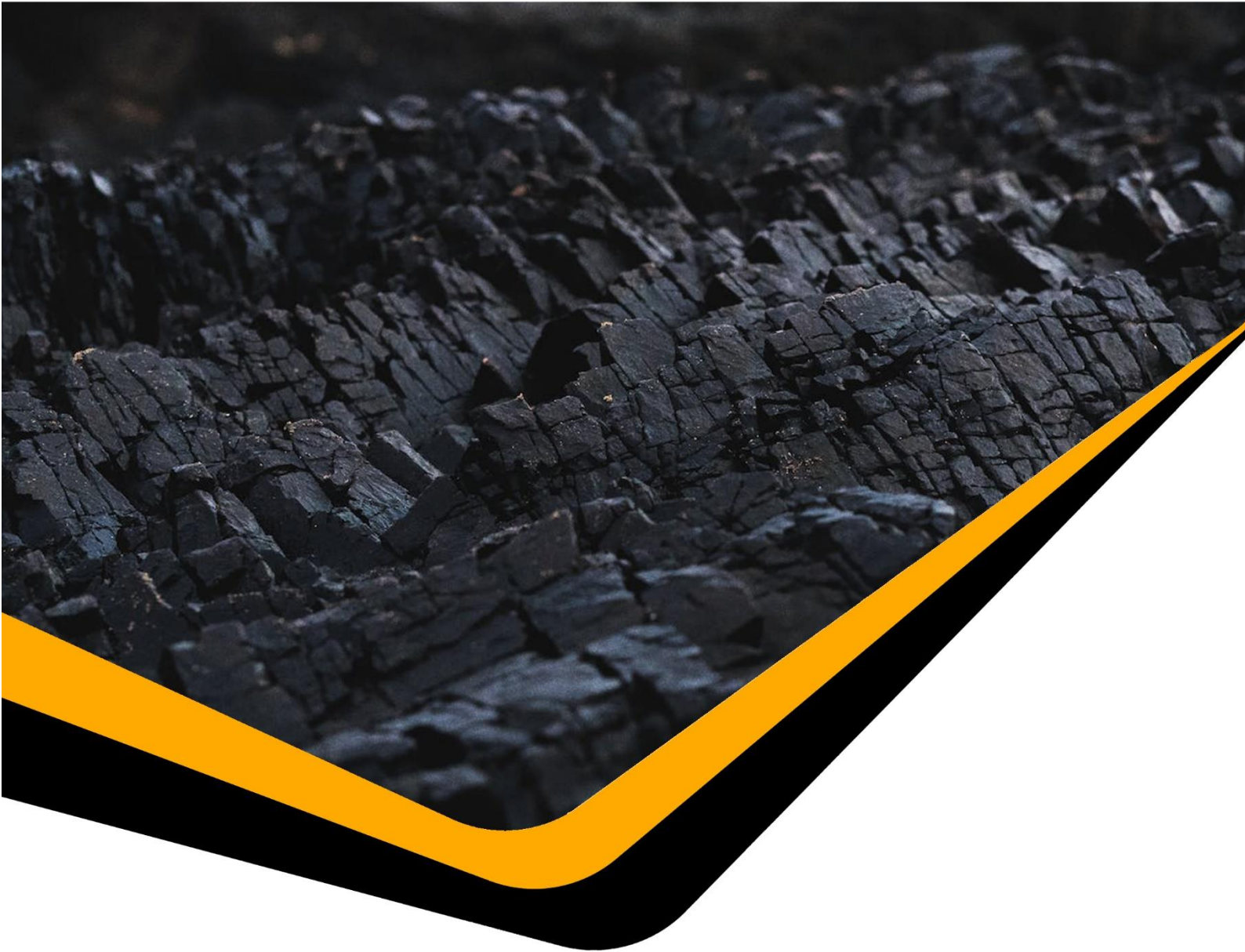
These test results are representative only of the sample received in the laboratory.

LAB NO.	SAMPLE NO.	AS RECEIVED BASIS										AIR DRIED BASIS										Enclave Swelling Number (CSN)	Coal Caking Index (CCI)	
		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)	5:1	3:3							
1	ETT_SP_10069-1A	0.80	24.33	20.65	54.22	0.73	0.45	24.42	20.72	54.40	0.73	24.53	20.82	54.65	0.73	27.58	72.42	0.97	6.0	71	-			
2	ETT_SP_10069-1B	0.21	26.48	19.86	52.95	1.29	0.49	26.54	19.96	53.07	1.29	26.67	20.00	53.33	1.30	27.27	72.73	1.77	4.0	52	-			
3	ETT_SP_10069-1C	4.65	12.79	28.04	54.52	0.52	0.85	13.30	29.16	56.69	0.54	13.42	29.41	57.18	0.55	33.96	46.04	0.63	6.0	70	-			
4	ETT_SP_10069-1D	2.44	23.69	20.89	52.98	0.73	0.66	24.13	21.27	53.95	0.74	24.28	21.41	54.30	0.74	28.28	71.72	0.98	5.5	66	-			
5	ETT_SP_10069-1E	3.71	24.81	21.74	49.73	0.65	0.68	25.59	22.43	51.30	0.67	25.76	22.58	51.45	0.67	30.42	69.58	0.90	5.5	69	-			
6	ETT_SP_10069-2A	1.80	30.82	20.72	46.67	0.65	0.71	31.16	20.95	47.19	0.66	31.38	21.10	47.52	0.66	30.74	69.26	0.96	6.6	76	-			
7	ETT_SP_10069-2B	1.54	26.07	22.38	50.01	0.70	0.62	26.32	22.58	50.48	0.71	26.48	22.73	50.79	0.71	30.91	69.09	0.97	7.6	81	-			
8	ETT_SP_10069-2C	2.11	37.55	19.05	41.29	0.57	0.73	38.08	19.32	41.87	0.58	38.36	19.46	42.18	0.58	31.57	68.43	0.94	6.0	74	-			
9	ETT_SP_10069-2D	2.67	32.30	20.18	44.85	0.62	0.79	32.92	20.57	45.72	0.63	33.19	20.73	46.08	0.64	31.03	68.97	0.95	6.2	75	-			
10	ETT_SP_10069-2E	1.32	22.93	21.30	54.45	0.47	0.43	23.13	21.49	54.94	0.48	23.23	21.58	55.18	0.48	28.12	71.88	0.63	5.5	66	-			
11	ETT_SP_10069-3A	1.86	21.10	22.78	54.26	0.56	0.43	21.41	23.11	55.05	0.57	21.50	23.21	55.29	0.57	29.57	70.43	0.73	6.5	81	-			
12	ETT_SP_10069-3B	2.22	22.24	20.74	54.80	0.64	0.44	22.64	21.12	55.80	0.66	22.74	21.21	56.04	0.66	27.46	72.54	0.85	6.0	74	-			
13	ETT_SP_10069-3C	2.31	15.52	24.34	57.60	0.60	0.42	15.82	24.83	58.73	0.51	15.89	24.94	59.17	0.61	29.65	70.35	0.73	6.5	81	-			
14	ETT_SP_10069-3D	2.75	19.48	22.58	54.99	0.57	0.60	20.12	23.08	56.21	0.58	20.24	23.22	56.54	0.58	29.11	70.89	0.73	6.5	78	-			
15	ETT_SP_10069-3E	2.76	18.20	23.22	55.82	0.63	0.58	18.61	23.74	57.08	0.65	18.72	23.88	57.41	0.65	29.37	70.63	0.80	6.5	80	-			
16	ETT_SP_10169-4A	1.89	24.68	21.61	52.42	0.56	0.44	24.84	21.93	53.19	0.57	24.95	22.03	53.43	0.57	29.19	70.81	0.76	6.0	72	-			
17	ETT_SP_10069-4B	2.67	28.78	20.88	47.66	0.56	0.55	29.41	21.34	48.71	0.57	29.57	21.46	48.97	0.57	30.46	69.54	0.81	5.5	66	-			
18	ETT_SP_10069-4C	2.91	20.53	23.14	53.42	0.69	0.56	21.02	23.70	54.72	0.70	21.14	23.84	55.02	0.71	30.23	69.77	0.90	6.5	77	-			
19	ETT_SP_10069-4D	2.96	23.28	21.65	52.12	0.82	0.52	23.86	22.19	53.43	0.84	23.98	22.31	53.71	0.84	29.35	70.65	1.11	6.0	75	-			
20	ETT_SP_10069-4E	3.36	16.92	23.85	55.87	0.90	0.50	17.42	24.56	57.53	0.93	17.50	24.68	57.82	0.94	29.92	70.08	1.13	6.5	87	-			
21	ETT_SP_10069-5A	3.73	22.94	21.90	51.42	0.74	0.71	23.66	22.59	53.04	0.77	23.83	22.75	53.42	0.77	29.87	70.13	1.02	6.5	78	-			
22	ETT_SP_10069-5B	4.14	19.30	22.67	53.89	0.77	0.59	20.01	23.51	55.89	0.80	20.13	23.65	56.22	0.80	29.61	70.39	1.00	6.5	80	-			
23	ETT_SP_10069-5C	4.07	24.23	21.33	50.37	0.70	0.62	25.10	22.10	52.16	0.72	25.26	22.24	52.51	0.73	29.75	70.25	0.97	6.0	74	-			
24	ETT_SP_10069-5D	4.08	21.87	22.63	51.42	0.69	0.62	22.46	23.45	53.27	0.71	22.80	23.59	53.61	0.71	30.56	69.44	0.92	6.5	82	-			
25	ETT_SP_10069-5E	3.15	18.25	23.65	54.94	0.73	0.60	18.77	24.32	56.50	0.75	18.85	24.42	56.73	0.75	30.09	69.91	0.92	6.5	86	-			

QUALITY ASSURANCE/QUALITY CONTROL DATA

SIDALMS-30/21	ASH	VOL	TSUL
Certified Value	16.78	20.33	0.590
Standard Deviation	0.039	0.204	0.2135
Unit	%	%	%
Analyzed value	16.67	20.33	0.606

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



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015