



НҮҮРСНИЙ ОВООЛГЫН ҮЗҮҮЛЭЛТ

№ ETT_SP_TC



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



НҮҮРСНИЙ ОВООЛГЫН ЧАНАРЫН ДУНДАЖ ҮЗҮҮЛЭЛТ

НИЙТ ЧИЙГ
TM (ar)

≤9.0%

НИЙТ ХҮХЭР S(db)

1.5%

(-0.3; +0.5)

ДЭГДЭМХИЙ БОДИС VM
(daf)

>20-37.0%

ИЛЧЛЭГ (ar)

≥6000

БАРЬЦАЛДАХ
ЧАНАР

≤30.0

НҮҮРСНИЙ
ХЭМЖЭЭ

128.0

МЯН.ТН

НҮҮРСНИЙ ОВООЛГЫН ШИНЖИЛГЭЭНИЙ ҮР ДҮН

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



CERTIFICATE OF ANALYSIS
25D309,E57,E299,F36,G09,G230,G344-TT

CLIENT: Erdenes Tavantolgoi JSC
ADDRESS: Finance Center, Jigjidjav-8
1st khoroo, Chingelhel District
Ulaanbaatar, Mongolia
ATTN: Erkhembayar.M
PROJECT NO. xxx
LAB. JOB NO. 25D309,E57,E299,F36,G09,G230,G344-TT
NO. SAMPLES: 15
Notes/Comments: xxx

SAMPLES RECEIVED: 30/04/2025 27/07/2025
INSTRUCTIONS RECEIVED: 30/04/2025 27/07/2025
DATE OF REPORT: 1/05/2025 28/07/2025
STATUS OF REPORT: FINAL
ANALYSIS COMPLETE: 1/05/2025 28/07/2025
PREPARATION CODE: CRUSH-01, 02, MILL-01
ANALYSIS CODE: 2.1 THERMAL COAL
TM, MOIS, ASH, VOL, TSUL,
GCV, CSN, CKIN

APPROVED BY: Laboratory Manager
CHECKED BY: Chief Chemist
TL-10-01
ИТЭГМЭЛЭГ
ЛАБОРАТОРИ
Quality Manager
Erdenes Tavantolgoi
JSC

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

STANDARD METHOD		GB/T 211	GB/T 212	GB/T 212	GB/T 212	ISO 19579	GB/T 213	GB/T 212	GB/T 212	GB/T 212	GB/T 212	ISO 19579	GB/T 213
AS RECEIVED BASIS													
LAB NO.	SAMPLE NO.	Total Moisture (TM)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)	Moisture (MOIS)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)
		AIR DRIED BASIS											
		%											
		kcal/kg											
		kcal/kg											
1	25112430	3.76	21.68	18.27	56.29	1.03	6118	1.06	22.29	18.78	57.87	1.06	6290
2	25112530	7.27	18.62	18.32	55.79	0.62	5923	2.67	19.55	19.23	58.55	0.65	6217
3	25119306	6.98	16.78	16.80	59.44	0.45	6139	1.77	17.72	17.74	62.77	0.48	6482
4	25119406	6.41	14.53	17.81	61.25	0.60	6486	1.72	15.25	18.70	64.32	0.63	6811
5	25148226	8.22	16.54	17.71	57.53	0.46	6080	2.40	17.59	18.83	61.18	0.49	6466
6	25148326	8.26	19.27	16.82	55.65	0.48	5821	2.14	20.56	17.94	59.37	0.51	6210
7	25148626	8.46	17.13	16.58	57.83	0.45	5999	1.89	18.36	17.77	61.98	0.48	6430
8	25158603	3.51	14.87	17.27	64.36	0.61	6822	1.15	15.23	17.69	65.93	0.63	6989
9	25158703	6.80	20.88	17.64	54.68	0.47	5769	2.16	21.92	18.52	57.40	0.49	6056
10	25173001	5.82	14.91	22.43	56.84	0.43	6206	2.28	15.47	23.27	58.98	0.45	6440
11	25173101	6.72	13.46	23.96	55.86	0.36	6219	2.49	14.07	25.05	58.39	0.38	6501
12	25186419	2.82	22.00	17.57	57.61	1.02	6357	0.78	22.46	17.94	58.82	1.04	6490
13	25186519	3.15	18.11	17.40	61.34	1.15	6475	0.79	18.55	17.82	62.84	1.17	6837
14	25199827	1.75	19.45	17.59	61.21	0.89	6716	0.62	19.67	17.79	61.92	0.90	6793
15	25199927	1.39	18.76	18.37	61.47	1.21	6735	0.50	18.93	18.54	62.03	1.22	6796

QUALITY ASSURANCE/QUALITY CONTROL DATA

STDA/SWS-40/23	ASH	VOL	GCV	TSUL
Certified Value	10.67	20.55	7696	0.620
Standard Deviation	0.056	0.137	24	0.0144
Unit	%	%	kcal/kg	%
Analyzed value	10.65	20.58	7687	0.616

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STATUS OF REPORT: FINAL
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PREPARATION CODE: CRUSH-01, 02; MILL-01
ANALYSIS CODE: 2:1, THERMAL COAL
TM, MOIS, ASH, VOL, TSUL,
GCV, CSN, CKIN

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

STANDARD METHOD		GB/T 212	GB/T 212	GB/T 212	ISO 19579	GB/T 213	GB/T 212	GB/T 212	ISO 19579	GB/T 213	GB/T 5447	
		DRY BASIS				DRY, ASH-FREE BASIS						
LAB NO.	SAMPLE NO.	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)	Coal Caking Index (CKIN)	
							%	%	%	kcal/kg	5:1	3:3
1	25112430	22.53	18.98	58.49	1.07	6357	24.50	75.50	1.38	8205	-	9
2	25112530	20.08	19.76	60.16	0.67	6387	24.73	75.27	0.84	7992	-	0
3	25119306	18.04	18.06	63.90	0.49	6599	22.04	77.96	0.59	8052	-	0
4	25119406	15.52	19.03	65.45	0.65	6930	22.53	77.47	0.76	8203	-	0
5	25148226	18.02	19.29	62.68	0.50	6625	23.54	76.46	0.61	8081	-	0
6	25148326	21.01	18.33	60.66	0.52	6345	23.21	76.79	0.66	8032	-	0
7	25148626	18.72	18.11	63.17	0.49	6553	22.28	77.72	0.60	8062	-	0
8	25158603	15.41	17.90	66.70	0.64	7070	21.16	78.84	0.75	8357	-	0
9	25158703	22.41	18.93	58.67	0.50	6190	24.39	75.61	0.65	7977	-	0
10	25173001	15.83	23.82	60.35	0.46	6590	28.29	71.71	0.54	7829	-	0
11	25173101	14.43	25.69	59.88	0.39	6667	30.02	69.98	0.45	7791	-	0
12	25186419	22.64	18.08	59.28	1.05	6541	23.37	76.63	1.36	8455	-	15
13	25186519	18.70	17.96	63.34	1.18	6892	22.10	77.90	1.46	8477	-	13
14	25199827	19.79	17.90	62.30	0.90	6835	22.32	77.68	1.12	8522	-	13
15	25199927	19.03	18.63	62.34	1.22	6831	23.01	76.99	1.51	8435	-	14

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.
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