
WASHED COAL QUALITY SPECIFICATION

Nº ETT_SP_CC



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



COAL STOCKPILES QUALITY (weighted average)

TOTAL MOISTURE (ar) 10.0% max	ASH (db) 10.5% max	VOLATILE MATTER (daf) 28.0% max
TOTAL SULPHUR (db) 0.8% max	G INDEX 75.0 min	QUANTITY 38.4 THOUSAND TONS

THE FOLLOWING IS THE RESULT OF THE LABORATORY TESTS

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



CERTIFICATE OF ANALYSIS
24J99-24J143-TT

CLIENT: Erdenes Tavantolgoi JSC
ADDRESS: Finance Center, Jigjidsav-8
1st khoroо, Chingeltei District
Ulaanbaatar, Mongolia
ATTN: Jambajants.G
PROJECT NO.: xxx
LAB. JOB NO.: 24J99-24J143-TT
NO. SAMPLES: 18
Notes/Comments: xxx

SAMPLES RECEIVED: 10/10/2024 14/10/2024
INSTRUCTIONS RECEIVED: 10/10/2024 14/10/2024
DATE OF REPORT: 10/10/2024 14/10/2024
STATUS OF REPORT: FINAL
ANALYSIS COMPLETE: 10/10/2024 14/10/2024
PREPARATION CODE: CRUSH-01, G2; MILL-01
ANALYSIS CODE: 1.1_COOKING COAL
1.3_COOKING COAL
2.1_THERMAL COAL
3.1_URBENT
TM_MOIS, ASH, VOL, TSUL, GCV, SOX, OXN

APPROVED BY: Laboratory Manager
Quality Manager

CHECKED BY: Chief Chemist

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

LAB NO.	STANDARD METHOD	SAMPLE NO.	AS RECEIVED BASIS										AIR DRIED BASIS		
			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	
			Total Moisture (TM)	Ash (ASH)	Volatle Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)	Moisture (MOIS)	Ash (ASH)	Volatle Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)	
%						kcal/kg				%			kcal/kg		
1	CHPP-CC 2024.10.10 14:00		11.13	9.37	20.41	59.09	0.52	6893	0.51	10.49	22.85	66.15	0.58	7717	
2	CHPP-CC 2024.10.10 16:00		10.17	9.66	20.36	59.81	0.51	6935	0.61	10.69	22.52	66.18	0.57	7673	
3	CHPP-CC 2024.10.10 18:00		11.59	9.61	19.71	59.09	0.52	6790	0.65	10.79	22.15	66.41	0.58	7631	
4	CHPP-CC 2024.10.10 20:00		9.55	10.23	20.04	60.18	0.55	6997	0.67	11.23	22.01	66.10	0.61	7684	
5	CHPP-CC 2024.10.11 12:00		14.46	7.59	19.68	58.28	0.48	6768	0.59	8.82	22.87	67.72	0.55	7865	
6	CHPP-CC 2024.10.11 14:00		9.63	9.24	20.00	61.13	0.52	7009	0.55	10.17	22.01	67.28	0.57	7713	
7	CHPP-CC 2024.10.11 16:00		14.08	8.59	18.86	58.48	0.51	6682	0.59	9.93	21.82	67.66	0.59	7745	
8	CHPP-CC 2024.10.11 18:00		11.44	8.87	19.87	59.81	0.51	6895	0.53	9.96	22.32	67.18	0.57	7731	
9	CHPP-CC 2024.10.11 20:00		16.38	7.81	18.63	57.17	0.48	6563	0.75	9.28	22.12	67.86	0.57	7790	
10	CHPP-CC 2024.10.12 12:00		13.04	9.26	19.38	58.32	0.53	6699	0.63	10.59	22.14	66.64	0.60	7655	
11	CHPP-CC 2024.10.12 16:00		12.21	9.72	19.40	58.68	0.52	6738	0.69	10.99	21.94	66.38	0.59	7622	
12	CHPP-CC 2024.10.13 12:00		12.20	8.95	19.80	59.04	0.51	6861	0.67	10.13	22.41	66.80	0.58	7762	
13	CHPP-CC 2024.10.13 14:00		10.29	9.27	19.92	60.53	0.56	6947	0.66	10.26	22.06	67.02	0.62	7693	
14	CHPP-CC 2024.10.13 16:00		10.83	9.37	19.99	59.81	0.54	6889	0.55	10.45	22.30	66.71	0.60	7683	
15	CHPP-CC 2024.10.13 20:00		9.83	9.32	20.37	60.48	0.54	6983	0.68	10.27	22.43	66.62	0.60	7692	

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

16	CHPP-CC 2024.10.14 12:00	16.71	8.51	18.82	55.96	0.45	6436	0.49	10.16	22.49	66.86	0.54	7690
17	CHPP-CC 2024.10.14 14:00	15.60	8.49	18.71	57.19	0.47	6529	0.59	10.00	22.04	67.36	0.55	7690
18	CHPP-CC 2024.10.14 16:00	19.35	7.68	19.34	53.63	0.43	6281	0.58	9.47	23.84	66.11	0.53	7744

QUALITY ASSURANCE/QUALITY CONTROL DATA

STDALSWS-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	10.66	20.53	7704	0.621

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



CERTIFICATE OF ANALYSIS
 24J99-24J143-TT

CLIENT: Erdenes Tavantolgoi JSC
ADDRESS: Finance Center, Jigjidjav-8
 1st khoroa, Chingeltei District
 Ulaanbaatar, Mongolia
ATTN: Jambajamts.G
PROJECT NO. xxx
LAB. JOB NO. 24J99-24J143-TT
NO. SAMPLES: 18
Notes/Comments: xxx

SAMPLES RECEIVED: 10/10/2024 14:10/2024
INSTRUCTIONS RECEIVED: 10/10/2024 14:10/2024
DATE OF REPORT: 10/10/2024 14:10/2024
STATUS OF REPORT: FINAL
ANALYSIS COMPLETE: 10/10/2024 14:10/2024
PREPARATION CODE: CRUSH-01, 02; MILL-01
ANALYSIS CODE: 11_LOOKING COAL
 13_COOKING COAL
 21_THERMAL COAL
 31_URGENT
 TN, MCS, ASH, VOL, TSUL, GCV,
 CSN, CEN

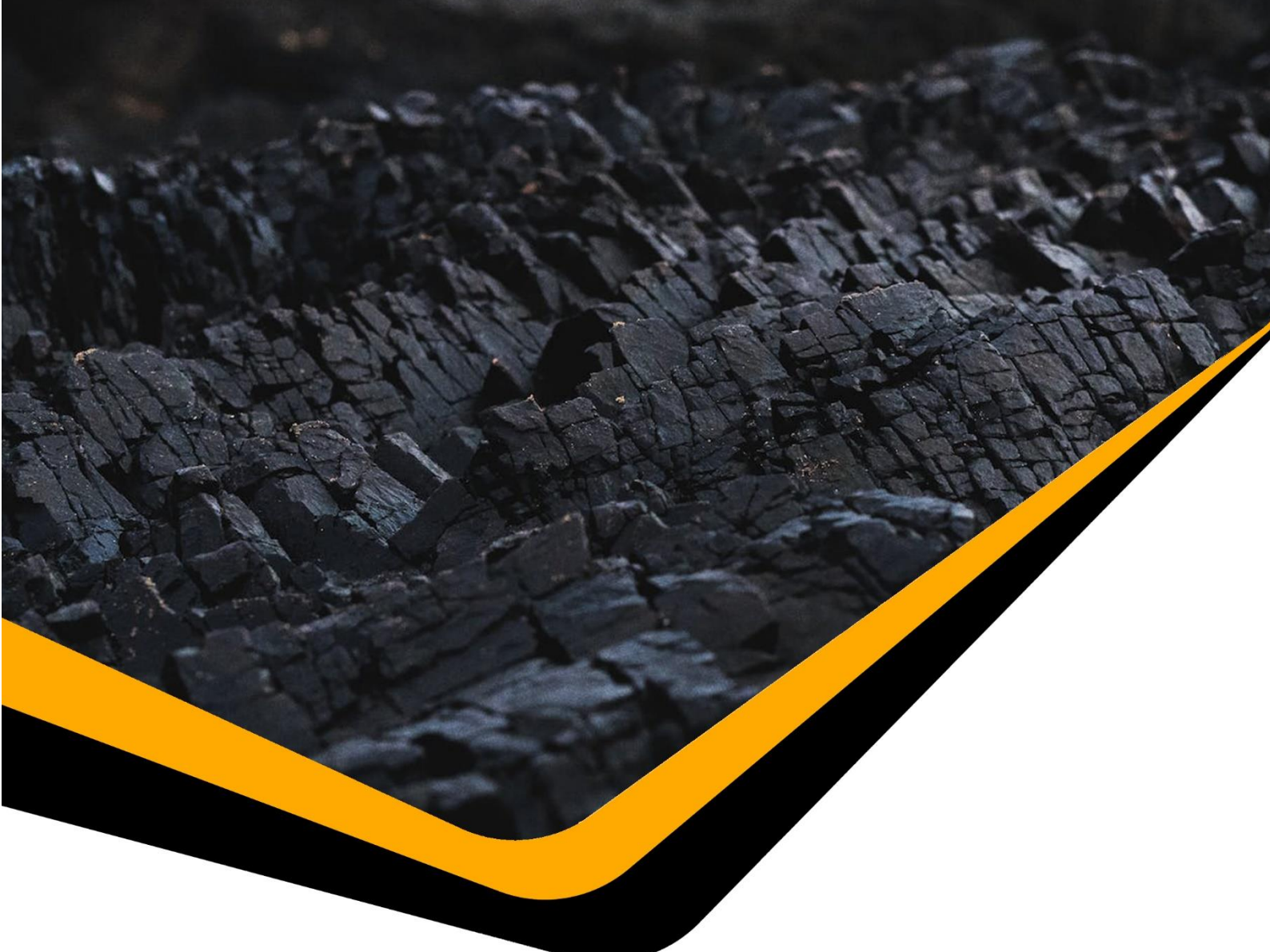
These are its results of representative only of the sample received in the laboratory.

LAB NO.	STANDARD METHOD	SAMPLE NO.	GB/T 212				ISO 19579				GB/T 213				GB/T 5448				GB/T 5447	
			DRY BASIS				DRY, ASH-FREE BASIS				DRY, ASH-FREE BASIS				Crucible Swelling Number (CSN)	Coal Caking Index (CKIN)				
			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)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)		Total Sulphur (TSUL)	Gross Calorific Value (GCV)	5:1	3:3	
			% kcal/kg																	
1	CHPP-CC 2024.10.10 14:00	10.54	22.97	66.49	0.59	7756	25.68	74.32	0.66	8670	7.0	82	-	-						
2	CHPP-CC 2024.10.10 16:00	10.75	22.66	66.58	0.57	7721	25.39	74.61	0.64	8651	6.5	79	-	-						
3	CHPP-CC 2024.10.10 18:00	10.86	22.30	66.64	0.58	7680	25.01	74.99	0.66	8617	6.5	79	-	-						
4	CHPP-CC 2024.10.10 20:00	11.31	22.16	66.54	0.61	7736	24.98	75.02	0.69	8722	6.5	77	-	-						
5	CHPP-CC 2024.10.11 12:00	8.87	23.01	68.12	0.56	7911	25.25	74.75	0.61	8681	7.0	86	-	-						
6	CHPP-CC 2024.10.11 14:00	10.22	22.13	67.65	0.57	7756	24.65	75.35	0.64	8639	6.5	81	-	-						
7	CHPP-CC 2024.10.11 16:00	9.99	21.95	68.06	0.59	7777	24.38	75.62	0.66	8640	6.5	82	-	-						
8	CHPP-CC 2024.10.11 18:00	10.01	22.44	67.54	0.57	7786	24.94	75.05	0.64	8653	7.0	82	-	-						
9	CHPP-CC 2024.10.11 20:00	9.35	22.28	68.37	0.57	7849	24.58	75.42	0.63	8658	7.0	83	-	-						
10	CHPP-CC 2024.10.12 12:00	10.65	22.28	67.06	0.61	7704	24.94	75.06	0.68	8622	6.5	80	-	-						
11	CHPP-CC 2024.10.12 16:00	11.07	22.09	66.84	0.59	7675	24.84	75.16	0.67	8630	6.5	78	-	-						
12	CHPP-CC 2024.10.13 12:00	10.19	22.56	67.25	0.58	7814	25.12	74.88	0.65	8701	7.0	81	-	-						
13	CHPP-CC 2024.10.13 14:00	10.33	22.20	67.46	0.62	7743	24.76	75.24	0.70	8636	7.0	78	-	-						
14	CHPP-CC 2024.10.13 16:00	10.50	22.42	67.07	0.60	7725	25.06	74.94	0.68	8632	7.0	78	-	-						
15	CHPP-CC 2024.10.13 20:00	10.34	22.58	67.08	0.60	7744	25.19	74.81	0.67	8638	6.5	80	-	-						

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

16	CHPP-CC 2024.10.14 12:00	10.21	22.60	67.19	0.54	7728	25.17	74.83	0.61	8607	7.0	78	-
17	CHPP-CC 2024.10.14 14:00	10.06	22.17	67.77	0.56	7736	24.65	75.35	0.62	8602	7.0	78	-
18	CHPP-CC 2024.10.14 16:00	9.53	23.98	66.49	0.53	7789	26.50	73.50	0.59	8609	7.0	82	-

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



www.ett.mn



75055555
1800-1072



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



