
WASHED COAL QUALITY SPECIFICATION

Nº ETT_SP_TC



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



COAL STOCKPILES QUALITY (weighted average)

Total moisture TM (ar)	Total sulphur S (db)	Volatile matter VM (daf)	QUANTITY 9.6 Thousand tons
10.0%	2.0%	28.0%	
max	max	(max)	
Calorific value CV (ar)	Ash (db)	G Index	
5500	22.0%	≤20.0	
min	min		

THE FOLLOWING IS THE RESULT OF THE LABORATORY TESTS

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



CERTIFICATE OF ANALYSIS
24L170-24L278-TT

CLIENT: Erdenes Tavantolgoi JSC
ADDRESS: Finance Center, Jigjidjav-6
1st khoroo, Chingeltei District
Ulaanbaatar, Mongolia
ATTN: Oyunbileg.B
PROJECT NO. xxx
LAB. JOB NO. 24L170-24L278-TT
NO. SAMPLES: 32
Notes/Comments: xxx

SAMPLES RECEIVED: 19/12/2024 27/12/2024
INSTRUCTIONS RECEIVED: 19/12/2024 27/12/2024
DATE OF REPORT: 19/12/2024 27/12/2024
STATUS OF REPORT: FINAL
ANALYSIS COMPLETE: 19/12/2024 27/12/2024
PREPARATION CODE: CRUSH-01, 02; MILL-01
ANALYSIS CODE: 1.3_COKING COAL
1.3_COKING COAL
2.1_THERMAL COAL
2.1_URGENT
TM, MOI, ASH, VOL, FC, FC, CSN,
O, N

APPROVED BY: [Signature]
Quality Manager

CHECKED BY: Chief Chemist

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

LAB NO.	SAMPLE NO.	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						AIR DRIED BASIS							
		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)		
		%						kcal/kg	%						kcal/kg
1	CHPP-TC 2024.12.19 12:00	6.85	24.45	16.60	52.11	1.03	5555	0.87	26.02	17.67	55.45	1.10	5912		
2	CHPP-TC 2024.12.20 10:00	7.57	24.12	17.05	51.26	1.20	5746	0.98	25.84	18.27	54.91	1.29	6156		
3	CHPP-TC 2024.12.20 12:00	5.49	21.64	17.43	55.44	1.15	6205	0.70	22.73	18.31	58.25	1.20	6520		
4	CHPP-TC 2024.12.20 14:00	5.46	20.65	17.84	56.05	1.18	6289	0.68	21.70	18.74	58.88	1.24	6606		
5	CHPP-TC 2024.12.20 17:00	5.55	24.00	17.61	52.84	1.73	5922	0.66	25.25	18.52	55.57	1.82	6228		
6	CHPP-TC 2024.12.21 12:00	6.40	24.14	16.99	52.46	1.32	5947	0.80	25.59	18.01	55.60	1.40	6303		
7	CHPP-TC 2024.12.21 14:00	8.07	25.85	17.21	48.87	1.86	5539	0.74	27.91	18.58	52.77	2.00	5980		
8	CHPP-TC 2024.12.21 16:00	6.27	23.00	17.60	53.13	1.43	6024	0.79	24.35	18.62	56.24	1.52	6376		
9	CHPP-TC 2024.12.22 10:00	6.56	30.71	17.01	45.72	2.77	5211	0.62	32.66	18.09	48.43	2.95	5542		
10	CHPP-TC 2024.12.22 12:00	6.25	29.55	17.12	47.08	2.15	5423	0.41	31.39	18.18	50.02	2.29	5762		
11	CHPP-TC 2024.12.22 14:00	4.65	24.76	17.31	53.28	1.46	5977	0.54	25.83	18.06	55.58	1.52	6234		
12	CHPP-TC 2024.12.22 16:00	4.62	27.07	17.37	50.93	1.69	5755	0.62	28.21	18.10	53.07	1.76	5997		
13	CHPP-TC 2024.12.23 10:00	3.74	22.52	17.98	55.76	1.38	6277	0.70	23.23	18.55	57.53	1.42	6475		
14	CHPP-TC 2024.12.23 12:00	4.96	23.81	18.06	53.16	1.71	6061	0.61	24.90	18.89	55.60	1.79	6339		

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15	CHPP-TC 2024.12.23 16:00	3.15	23.33	18.61	54.91	1.57	6283	0.59	23.95	19.10	56.36	1.61	6449
16	CHPP-TC 2024.12.24 10:00	6.89	31.51	17.80	43.80	2.53	5129	0.52	33.66	19.02	46.80	2.70	5480
17	CHPP-TC 2024.12.24 12:00	4.80	20.37	18.22	56.62	1.26	6381	0.60	21.26	19.02	59.12	1.32	6663
18	CHPP-TC 2024.12.24 14:00	6.61	25.48	17.95	49.77	2.19	5642	0.60	27.33	19.11	52.97	2.33	6066
19	CHPP-TC 2024.12.24 16:00	4.71	22.07	18.36	54.86	1.53	6180	0.58	23.02	19.16	57.24	1.60	6448
20	CHPP-TC 2024.12.24 18:00	5.33	31.60	17.49	45.58	2.46	5232	0.51	33.21	18.38	47.90	2.59	5499
21	CHPP-TC 2024.12.25 10:00	4.59	26.98	18.06	50.37	2.13	5511	0.53	28.13	18.83	52.52	2.22	5746
22	CHPP-TC 2024.12.25 12:00	4.66	28.26	18.09	48.99	2.30	5588	0.55	29.48	18.87	51.10	2.39	5829
23	CHPP-TC 2024.12.25 14:00	6.56	26.32	17.81	49.30	2.09	5596	0.64	27.99	18.94	52.43	2.22	5951
24	CHPP-TC 2024.12.25 16:00	7.18	28.87	17.86	46.09	2.58	5243	0.70	30.88	19.11	49.31	2.76	5609
25	CHPP-TC 2024.12.26 10:00	5.00	30.34	17.96	46.71	2.50	5267	0.51	31.77	18.81	48.91	2.62	5515
26	CHPP-TC 2024.12.26 12:00	2.96	21.22	18.12	57.70	1.10	6422	0.51	21.76	18.58	59.16	1.13	6584
27	CHPP-TC 2024.12.26 14:00	5.74	31.12	18.02	45.13	2.61	5154	0.52	32.84	19.02	47.63	2.76	5440
28	CHPP-TC 2024.12.26 16:00	4.09	23.26	18.37	54.27	1.66	6126	0.51	24.13	19.06	56.30	1.72	6355
29	CHPP-TC 2024.12.27 10:00	4.12	21.40	17.63	56.85	1.10	6312	0.58	22.20	18.28	58.95	1.14	6545
30	CHPP-TC 2024.12.27 12:00	3.59	22.91	17.28	56.22	1.18	6283	0.67	23.61	17.80	57.93	1.21	6473
31	CHPP-TC 2024.12.27 14:00	3.67	22.40	17.28	56.66	1.28	6287	0.66	23.10	17.82	58.43	1.32	6483
32	CHPP-TC 2024.12.27 16:00	4.20	20.24	17.48	58.08	1.17	6423	0.65	20.99	18.13	60.23	1.21	6661

QUALITY ASSURANCE/QUALITY CONTROL DATA

STDA/SWS-40/23	ASH	VOL	GCV	TSUL
Certified Value	10.87	20.33	7575	0.620
Standard Deviation	0.056	0.137	24	0.0144
Unit	%	%	kcal/kg	%
Analyzed value	10.68	20.62	7710	0.618

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PREPARATION CODE: CRUSH-01, 02; MILL-01
ANALYSIS CODE: 1.1_COOKING COAL
1.3_COOKING COAL
2.1_THERMAL COAL
3.1_URGENT
TM, MDG, ASH, VOL, TSUL, GCV, CSN, CKIN

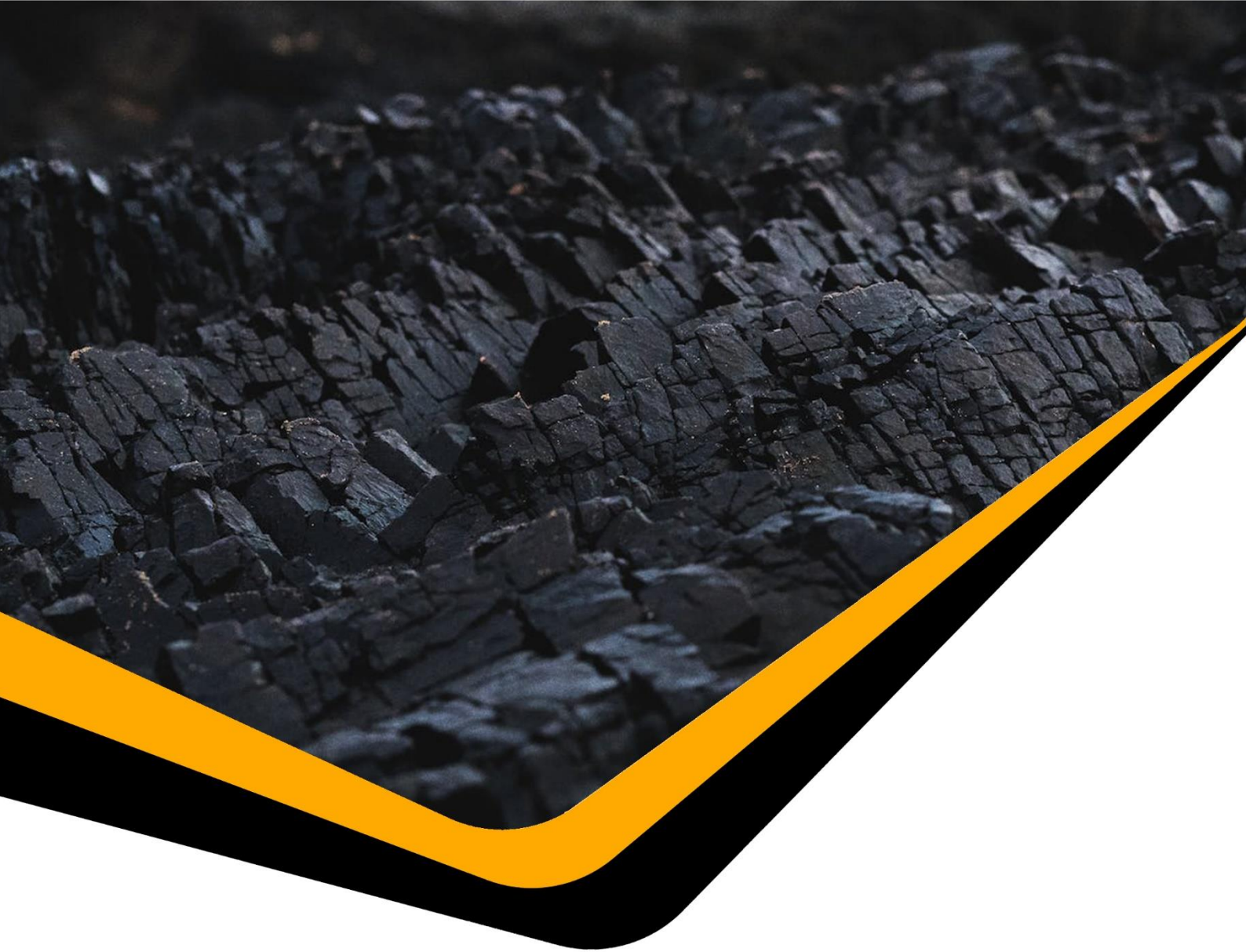
These test results are representative only of the sample received in the laboratory.

LAB NO.	STANDARD METHOD	SAMPLE NO.	GB/T 212				ISO 19579				GB/T 213				ISO 19579				GB/T 213				GB/T 5447	
			GB/T 212		GB/T 212		GB/T 212		GB/T 212		GB/T 212		GB/T 212		GB/T 212		GB/T 212		GB/T 212		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)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)	S:1	S:3							
1	CHPP-TC 2024.12.19 12:00	26.24	17.82	55.93	1.11	5964	24.16	75.84	1.50	8086	-	17												
2	CHPP-TC 2024.12.20 10:00	26.09	18.45	55.46	1.30	6217	24.96	75.04	1.76	8411	-	16												
3	CHPP-TC 2024.12.20 12:00	22.99	18.44	58.66	1.21	6566	23.92	76.08	1.57	8516	29	-												
4	CHPP-TC 2024.12.20 14:00	21.84	18.87	59.29	1.25	6651	24.14	75.86	1.60	8510	30	17												
5	CHPP-TC 2024.12.20 17:00	25.41	18.64	55.94	1.83	6270	25.00	75.00	2.45	8406	22	-												
6	CHPP-TC 2024.12.21 12:00	25.79	18.16	56.05	1.41	6354	24.47	75.53	1.90	8563	-	16												
7	CHPP-TC 2024.12.21 14:00	28.12	18.72	53.16	2.02	6025	26.04	73.96	2.81	8381	-	16												
8	CHPP-TC 2024.12.21 16:00	24.54	18.77	56.69	1.53	6427	24.88	75.12	2.02	8517	19	-												
9	CHPP-TC 2024.12.22 10:00	32.87	18.21	48.93	2.96	5577	27.12	72.88	4.42	8307	-	14												
10	CHPP-TC 2024.12.22 12:00	31.52	18.26	50.22	2.30	5785	26.66	73.34	3.35	8448	-	15												
11	CHPP-TC 2024.12.22 14:00	25.97	18.16	55.88	1.53	6268	24.52	75.48	2.06	8467	-	16												
12	CHPP-TC 2024.12.22 16:00	28.38	18.21	53.40	1.77	6034	25.43	74.57	2.47	8426	-	16												
13	CHPP-TC 2024.12.23 10:00	23.39	18.68	57.93	1.43	6521	24.38	75.62	1.87	8512	-	17												
14	CHPP-TC 2024.12.23 12:00	25.05	19.01	55.94	1.80	6378	25.36	74.64	2.40	8510	26	-												

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15	CHPP-TC 2024.12.23 16:00	24.09	19.21	56.70	1.62	6487	25.31	74.69	2.13	8546	26	-
16	CHPP-TC 2024.12.24 10:00	33.84	19.12	47.04	2.72	5508	28.90	71.10	4.11	8326	-	15
17	CHPP-TC 2024.12.24 12:00	21.39	19.14	59.47	1.32	6703	24.35	75.65	1.68	8527	28	-
18	CHPP-TC 2024.12.24 14:00	27.49	19.22	53.29	2.35	6042	26.51	73.49	3.24	8333	18	-
19	CHPP-TC 2024.12.24 16:00	23.16	19.27	57.57	1.60	6485	25.08	74.92	2.09	8440	28	-
20	CHPP-TC 2024.12.24 18:00	33.38	18.47	48.14	2.60	5527	27.73	72.27	3.91	8296	-	15
21	CHPP-TC 2024.12.25 10:00	28.28	18.93	52.80	2.24	5776	26.39	73.61	3.12	8053	-	16
22	CHPP-TC 2024.12.25 12:00	29.64	18.97	51.39	2.41	5861	26.97	73.03	3.42	8331	-	16
23	CHPP-TC 2024.12.25 14:00	28.17	19.06	52.77	2.24	5989	26.54	73.46	3.11	8338	18	-
24	CHPP-TC 2024.12.25 16:00	31.10	19.24	49.66	2.78	5649	27.93	72.07	4.03	8198	-	16
25	CHPP-TC 2024.12.26 10:00	31.93	18.91	49.16	2.64	5544	27.78	72.22	3.87	8144	-	15
26	CHPP-TC 2024.12.26 12:00	21.87	18.67	59.46	1.13	6618	23.90	76.10	1.45	8470	22	-
27	CHPP-TC 2024.12.26 14:00	33.01	19.12	47.88	2.77	5468	28.53	71.47	4.14	8163	-	14
28	CHPP-TC 2024.12.26 16:00	24.26	19.16	56.59	1.73	6388	25.29	74.71	2.28	8433	27	-
29	CHPP-TC 2024.12.27 10:00	22.32	18.39	59.29	1.14	6583	23.67	76.33	1.47	8475	19	-
30	CHPP-TC 2024.12.27 12:00	23.77	17.92	58.31	1.22	6517	23.50	76.50	1.60	8548	-	15
31	CHPP-TC 2024.12.27 14:00	23.25	17.94	58.81	1.33	6526	23.37	76.63	1.73	8503	-	15
32	CHPP-TC 2024.12.27 16:00	21.12	18.25	60.63	1.22	6704	23.14	76.86	1.55	8500	19	-

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Чингэлтэй дүүрэг,
Улаанбаатар хот

