
COAL QUALITY SPECIFICATION

Nº ETT_SP_TC



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



COAL STOCKPILE QUALITY (Weighted average)

Total moisture TM (ar) 6.0% (-3.0; +3.0)	Ash (db) 18.5% (-5.0; +5.0)	Volatile matter VM (daf) 32.0% (-5.0; +5.0)
Total sulphur S (ad) ≤1.5% max	Calorific value CV (ar) 5500 (-800; +500)	Quantity 128.0 Thousand tons

The following is the result of the laboratory tests.

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 Mongol Nekhmal Building, 2nd khoroo
 Chinggis Avenue, Khan-Uul District
 Ulaanbaatar, Mongolia
 Tel +976 70 007667



CERTIFICATE OF ANALYSIS
 23E18-TT-23H59-TT

CLIENT: Erdenes Tavantolgoi JSC
ADDRESS: Finance Center, Jigjidjav-8
 1st khoroo, Chingeltei District
 Ulaanbaatar, Mongolia
ATTN: Galtzaya.B
PROJECT NO. xxx
LAB. JOB NO. 23E18-TT-23H59-TT
NO. SAMPLES: 67
Notes/Comments: xxx

SAMPLES RECEIVED: 08/08/2023-4/05/2023
INSTRUCTIONS RECEIVED: 08/08/2023-4/05/2023
DATE OF REPORT: 09/08/2023-5/05/2023
STATUS OF REPORT: FINAL
ANALYSIS COMPLETE: 09/08/2023-5/05/2023
PREPARATION CODE: CRUSH-01, 02: MILL-01
ANALYSIS CODE: 2.1. COKING COAL
 2.1. THERMAL COAL
 TM, MOIS, ASH, VOL, TSUL,
 GCV, CSN, CIGN

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.	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	WSS-23-6-1tr-1A-106	6.69	14.08	25.13	54.11	0.34	6217	2.21	14.76	26.33	56.70	0.36	6515	
2	WSS-23-6-1tr-1B-122	3.80	17.33	25.42	53.45	0.39	6339	1.18	17.80	26.11	54.91	0.40	6511	
3	WSS-23-6-1tr-1C-123	3.38	16.95	25.63	54.04	0.46	6466	1.05	17.36	26.25	55.34	0.47	6622	
4	ETT_SP_30009-1E	2.77	18.75	25.90	52.58	0.91	6324	0.85	19.12	26.42	53.62	0.93	6449	
5	ETT_SP_30009-1F	5.25	17.84	24.74	52.17	0.44	6158	1.20	18.60	25.80	54.40	0.46	6421	
6	ETT_SP_30009-1G	2.59	17.49	22.10	57.82	0.66	6675	0.96	17.78	22.47	58.79	0.67	6787	
7	ETT_SP_30009-1H	4.98	17.34	19.70	57.98	0.69	6418	1.69	17.94	20.38	59.99	0.72	6640	
8	WSS-23-6-1tr-2A-136	6.06	17.68	24.62	51.65	0.49	6127	2.15	18.42	25.64	53.79	0.51	6382	
9	WSS-23-6-1tr-2B-147	4.79	15.54	26.21	53.46	0.40	6331	1.19	16.13	27.20	55.48	0.42	6570	
10	WSS-23-6-1tr-2C-148	4.85	16.96	25.54	52.65	0.39	6148	1.11	17.63	26.54	54.72	0.41	6389	
11	WSS-23-6-1tr-2D-154	5.59	16.73	25.19	52.48	0.49	6223	1.33	17.49	26.33	54.85	0.51	6504	
12	ETT_SP_30009-2E	4.24	21.63	23.43	50.69	0.42	5922	1.31	22.30	24.15	52.24	0.43	6103	
13	ETT_SP_30009-2F	4.38	21.49	24.97	49.16	0.41	5784	1.35	22.17	25.76	50.72	0.43	5968	

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23E18-TT-23H59-TT

CLIENT: Erdenes Tavantolgoi JSC
ADDRESS: Finance Center, Jigjidjav-8
1st khoroо, Chingelbai District
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DATE OF REPORT: 09/08/2023-5/05/2023
STATUS OF REPORT: FINAL
ANALYSIS COMPLETE: 09/08/2023-5/05/2023
PREPARATION CODE: CRUSH-01, 02; MILL-01
ANALYSIS CODE: 1.1_COOKING COAL
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.

LAB NO.	STANDARD METHOD	SAMPLE NO.	GB/T 212				ISO 19579				GB/T 213				Crucible Swelling Number (CSN)	GB/T 5447	
			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)	Crucible Swelling Number (CSN)	Coal Caking Index (CKIN)				
													5:1	3:3			
			%				%				kcal/kg						
1	WSS-23-6-1tr-1A-106		15.09	26.93	57.98	0.37	6663	31.71	68.29	0.43	7847						
2	WSS-23-6-1tr-1B-122		18.01	26.42	55.56	0.41	6589	32.23	67.77	0.50	8037						
3	WSS-23-6-1tr-1C-123		17.55	26.53	55.93	0.48	6692	32.17	67.83	0.58	8116						
4	ETT_SP_30009-1E		19.28	26.64	54.08	0.94	6504	33.00	67.00	1.16	8057						
5	ETT_SP_30009-1F		18.83	26.12	55.06	0.46	6499	32.17	67.83	0.57	8007						
6	ETT_SP_30009-1G		17.95	22.69	59.36	0.68	6852	27.65	72.35	0.83	8352						
7	ETT_SP_30009-1H		18.24	20.73	61.02	0.73	6755	25.36	74.64	0.89	8262						
8	WSS-23-6-1tr-2A-136		18.82	26.20	54.98	0.52	6522	32.28	67.72	0.64	8034	2.0	-		11		
9	WSS-23-6-1tr-2B-147		16.32	27.52	56.15	0.42	6649	32.89	67.11	0.51	7946				13		
10	WSS-23-6-1tr-2C-148		17.83	26.84	55.33	0.41	6461	32.66	67.34	0.50	7843				5		
11	WSS-23-6-1tr-2D-154		17.72	26.68	55.59	0.52	6591	32.43	67.57	0.63	8011				14		
12	ETT_SP_30009-2E		22.59	24.47	52.93	0.44	6185	31.61	68.39	0.56	7990						
13	ETT_SP_30009-2F		22.47	26.11	51.42	0.43	6049	33.68	66.32	0.56	7803						



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



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Финанс төв, 1-р хороо,
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