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# COAL QUALITY SPECIFICATION

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Nº ETT\_SP\_TC

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ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



COAL STOCKPILES QUALITY (weighted average)

Volatile matter  
VM (daf)  
**37.0%**  
(max)

Calorific  
value  
CV (ar)  
**≥5500**

G Index  
**≤5.0**

QUANTITY  
**64.0**  
Thousand tons

THE FOLLOWING IS THE RESULT OF THE LABORATORY TESTS

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



CERTIFICATE OF ANALYSIS  
25A198,A220-TT

CLIENT: Erdenes Tavantolgoi JSC  
ADDRESS: Finance Center, Jigjidjav-8  
1st khoroo, Chingeltei District  
Ulaanbaatar, Mongolia  
ATTN: Erkhembayar.M  
PROJECT NO. xxx  
LAB. JOB NO. 25A198,A220-TT  
NO. SAMPLES: 4  
Notes/Comments: xxx

SAMPLES RECEIVED: 19/01/2025 21/01/2025  
INSTRUCTIONS RECEIVED: 19/01/2025 21/01/2025  
DATE OF REPORT: 20/01/2025 22/01/2025  
STATUS OF REPORT: FINAL  
ANALYSIS COMPLETE: 20/01/2025 22/01/2025  
PREPARATION CODE: CRUSH-01, 02; MILL-01  
ANALYSIS CODE: 2.1\_THERMAL COAL  
TM, MOIS, ASH, VOL, TSUL  
APPROVED BY: Laboratory Manager  
Quality Manager  
CHECKED BY: Chief Chemist

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   |           |                        |                   | AIR DRIED BASIS      |                             |                 |           |                        |                   |                      |                             |
| LAB NO.         | SAMPLE NO. | Total Moisture (TM) | Ash (ASH) | Volatiles Matter (VOL) | Fixed Carbon (FC) | Total Sulphur (TSUL) | Gross Calorific Value (GCV) | Moisture (MOIS) | Ash (ASH) | Volatiles Matter (VOL) | Fixed Carbon (FC) | Total Sulphur (TSUL) | Gross Calorific Value (GCV) |
|                 |            | %                   |           |                        |                   | kcal/kg              |                             |                 |           |                        |                   |                      |                             |
| 1               | 2511519    | 7.21                | 15.13     | 23.13                  | 54.53             | 0.69                 | 6126                        | 1.87            | 16.00     | 24.46                  | 57.67             | 0.73                 | 6479                        |
| 2               | 2511619    | 9.57                | 16.41     | 22.10                  | 51.92             | 0.54                 | 5663                        | 2.48            | 17.70     | 23.83                  | 55.99             | 0.58                 | 6107                        |
| 3               | 2513121    | 8.77                | 17.52     | 23.58                  | 50.13             | 0.59                 | 5883                        | 2.53            | 18.71     | 25.20                  | 53.56             | 0.63                 | 6285                        |
| 4               | 2513221    | 12.63               | 16.70     | 22.59                  | 48.08             | 0.47                 | 5473                        | 4.53            | 18.25     | 24.68                  | 52.53             | 0.51                 | 5979                        |

QUALITY ASSURANCE/QUALITY CONTROL DATA

| STDALSW-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 | 20.63 | 7694    | 0.623  |

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

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25A198,A220-TT

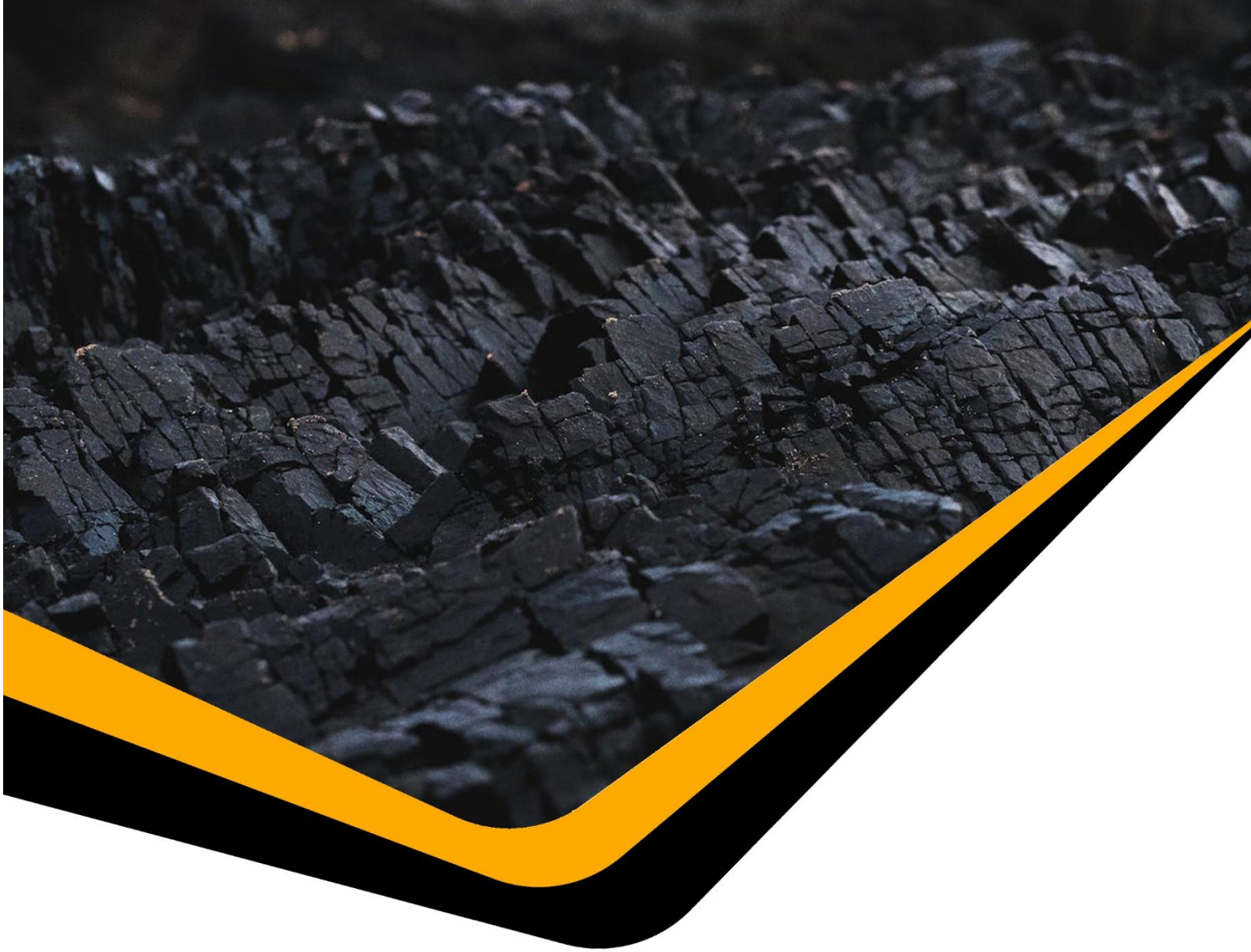
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ANALYSIS CODE: 2.1, THERMAL COAL  
TM, MOIS, ASH, VOL, TSUL,  
GCV, CKIN

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 |                          |
|-----------------|------------|-----------|-----------------------|-------------------|----------------------|-----------------------------|-----------------------|-------------------|----------------------|-----------------------------|-----------|--------------------------|
| LAB NO.         | SAMPLE NO. | DRY BASIS |                       |                   |                      | DRY, ASH-FREE BASIS         |                       |                   |                      |                             |           | 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) |           |                          |
|                 |            | %         |                       |                   |                      | kcal/kg                     | %                     |                   |                      |                             | kcal/kg   |                          |
|                 |            |           |                       |                   |                      |                             |                       |                   |                      |                             | 5:1       | 3:3                      |
| 1               | 2511519    | 16.31     | 24.93                 | 58.77             | 0.75                 | 6603                        | 29.78                 | 70.22             | 0.89                 | 7889                        | -         | 0                        |
| 2               | 2511619    | 18.15     | 24.44                 | 57.41             | 0.60                 | 6262                        | 29.86                 | 70.14             | 0.73                 | 7651                        | -         | 0                        |
| 3               | 2513121    | 19.20     | 25.85                 | 54.95             | 0.65                 | 6448                        | 31.99                 | 68.01             | 0.80                 | 7981                        | -         | 12                       |
| 4               | 2513221    | 19.12     | 25.86                 | 55.03             | 0.54                 | 6263                        | 31.97                 | 68.03             | 0.66                 | 7744                        | -         | 4                        |

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75055555  
1800-1072



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

