

ALS GROUP LLC

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



CERTIFICATE OF ANALYSIS
231115-TT

CLIENT: Tavantolgoi LLC
ADDRESS: Umnugovi, Tsogttsetsii
Tsagaan oboo bag
Tavantolgoi LLC
ATTN: Javkhlanbayar.B
PROJECT NO. xxx
LAB. JOB NO. 231115-TT
NO. SAMPLES: 1
Notes/Comments: xxx

SAMPLES RECEIVED: 15/Sep/23
INSTRUCTIONS RECEIVED: 15/Sep/23
DATE OF REPORT: 16/Sep/23
STATUS OF REPORT: FINAL
ANALYSIS COMPLETE: 16/Sep/23
PREPARATION CODE: CRUSH-01, 02; MILL-01
ANALYSIS CODE: TM, MOIS, ASH, VOL, TSUL,
GCV, CSN, CKIN

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 |
|-----------------|-----------------------------------------|---------------------|-----------|-----------------------|-------------------|----------------------|-----------------------------|-----------------|-----------|-----------------------|-------------------|----------------------|-----------------------------|
| LAB NO. | SAMPLE NO. | 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 | | | | | |
| 1 | Coking coal with medium volatile matter | 2.14 | 12.91 | 22.06 | 62.89 | 0.57 | 7258 | 0.47 | 13.13 | 22.43 | 63.97 | 0.58 | 7382 |

QUALITY ASSURANCE/QUALITY CONTROL DATA

| STDALSWS-30/21 | ASH | VOL | GCV | TSUL |
|--------------------|-------|-------|---------|--------|
| Certified Value | 10.70 | 20.35 | 7695 | 0.606 |
| Standard Deviation | 0.059 | 0.204 | 17 | 0.0136 |
| Unit | % | % | kcal/kg | % |
| Analyzed value | 10.67 | 20.32 | 7696 | 0.610 |

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**CERTIFICATE OF ANALYSIS
 23I115-TT**

CLIENT: Tavantolgoi LLC
ADDRESS: Umnugovi, Tsogttsetsii
 Tsagaan ovoo bag
 Tavantolgoi LLC
ATTN: Javkhlanbayar.B
PROJECT NO. xxx
LAB. JOB NO. 23I115-TT
NO. SAMPLES: 1
Notes/Comments: xxx

SAMPLES RECEIVED: 15/Sep/23
INSTRUCTIONS RECEIVED: 15/Sep/23
DATE OF REPORT: 16/Sep/23
STATUS OF REPORT: FINAL
ANALYSIS COMPLETE: 16/Sep/23
PREPARATION CODE: CRUSH-01, 02; MILL-01
ANALYSIS CODE: TM, MOIS, ASH, VOL,
 TSUL, GCV, CSN, CKIN

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

| LAB NO. | SAMPLE NO. | STANDARD METHOD | | | | | STANDARD METHOD | | | | | Crucible Swelling Number (CSN) | GB/T 5447 | |
|-----------|-----------------------------------------|-------------------|----------------------|-----------------------------|-----------------------|-------------------|----------------------|-----------------------------|-----------|----------|-----------|--------------------------------|-----------|-----|
| | | 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 5448 | | GB/T 5447 | |
| | | DRY BASIS | | | | | DRY, ASH-FREE BASIS | | | | | | 5:1 | 3:3 |
| 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) | 6.0 | | | | | |
| % | | | | | kcal/kg | % | | | | | kcal/kg | | | |
| 1 | Coking coal with medium volatile matter | 13.19 | 22.54 | 64.27 | 0.58 | 7417 | 25.96 | 74.04 | 0.67 | 8544 | 6.0 | 70 | - | |