

---

# COAL QUALITY SPECIFICATION

---

Nº ETT\_SP\_CC

---



ISO 45001:2018

---



ISO 9001:2015

---



ISO 14001:2015



COAL STOCKPILES QUALITY (weighted average)

TOTAL  
MOISTURE (ar)

3.0%

(-1.5; +1.5)

ASH (db)

15.0%

(-3.0; +3.0)

VOLATILE  
MATTER (daf)

≤28.0%

TOTAL SULPHUR  
(db)

1.0%

(-0.3; +0.5)

G INDEX

≥70.0

QUANTITY

64.0

THOUSAND TONS

THE FOLLOWING IS THE RESULT OF THE LABORATORY TESTS

ALA GROUP LLC  
Mongol National Building, 9th floor  
Chinggis Avenue, Khan-Uul District  
Ulaanbaatar, Mongolia  
Tel: +976 70 007887

CERTIFICATE OF ANALYSIS  
25L71.L85.L104.L190.L241.L292.L344-TT

CLIENT: Erdenes Tavan Tolgoi JSC

ADDRESS: Finance Center, Jigjidaa-8  
1st floor, Chinggisai District  
Ulaanbaatar, Mongolia

ATTN: Garmbaatar.B

PROJECT NO. xxx

LAB. JOB NO. 25L71.L85.L104.L190.L241.L292.L344-TT

NO. SAMPLES: 18

Notes/Comments: xxx

SAMPLES RECEIVED: 5/12/2025 20/12/2025  
INSTRUCTIONS RECEIVED: 5/12/2025 20/12/2025  
DATE OF REPORT: 6/12/2025 21/12/2025  
STATUS OF REPORT: FINAL  
ANALYSIS COMPLETE: 6/12/2025 21/12/2025  
PREPARATION CODE: CSPSC, CSPC, CSPG  
ANALYSIS CODE: 1.2, COOKING COAL  
TM, MOIS, ASH, VOL  
TSUL, CSN, CGN

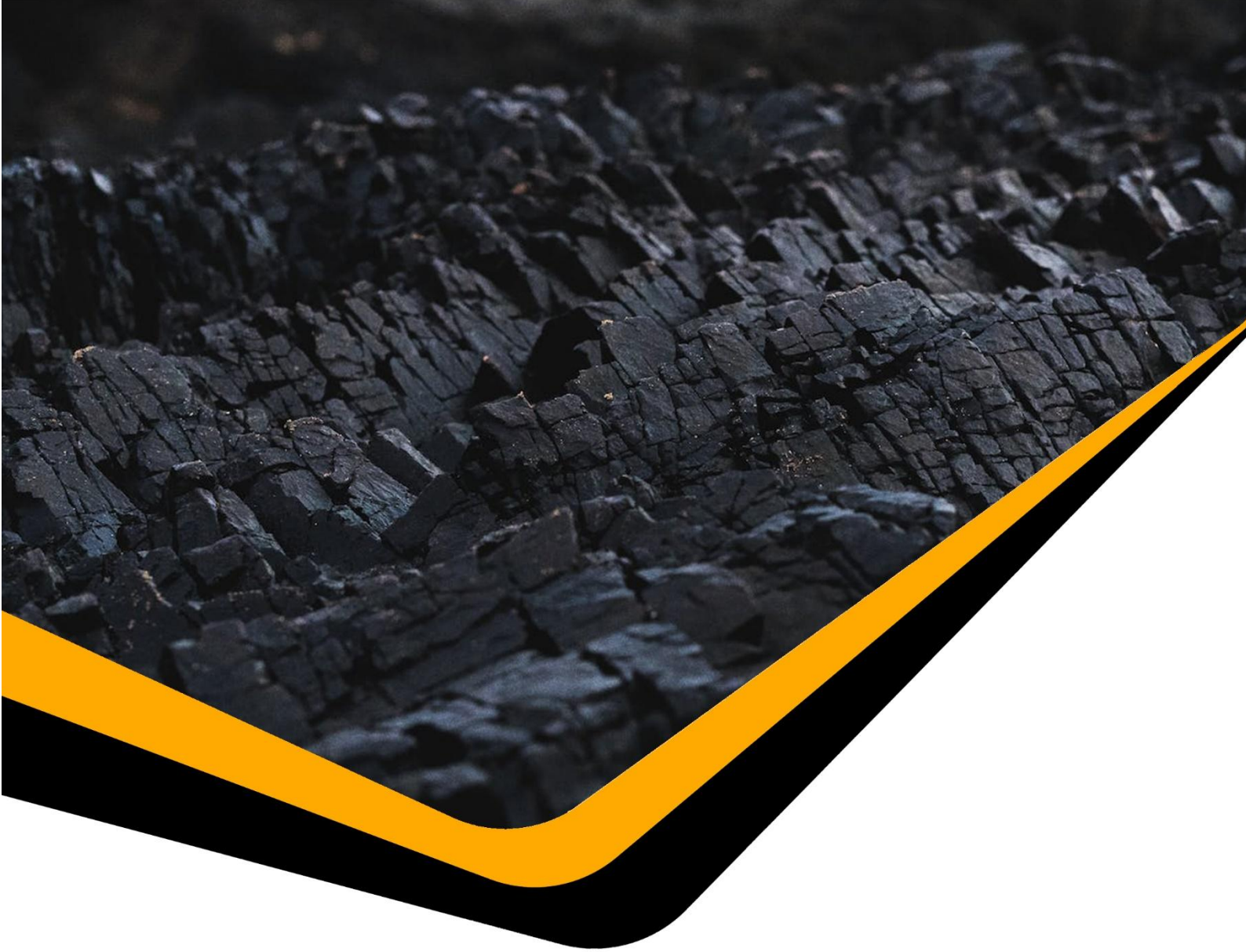
APPROVED BY: Laboratory Manager  
B Bold Erdene

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

| STANDARD METHOD |            | AS RECEIVED BASIS   |           |                        |              | AIR DRIED BASIS      |                 |           |                        | DRY BASIS    |                      |           |                        | DRY, ASH-FREE BASIS |                      |                        |              | GB/T 8446            |                                | GB/T 6447               |  |
|-----------------|------------|---------------------|-----------|------------------------|--------------|----------------------|-----------------|-----------|------------------------|--------------|----------------------|-----------|------------------------|---------------------|----------------------|------------------------|--------------|----------------------|--------------------------------|-------------------------|--|
| LAB NO.         | SAMPLE NO. | Total Moisture (TM) | Ash (ASH) | Volatiles Matter (VOL) | Fixed Carbon | Total Sulphur (TSUL) | Moisture (MOIS) | Ash (ASH) | Volatiles Matter (VOL) | Fixed Carbon | Total Sulphur (TSUL) | Ash (ASH) | Volatiles Matter (VOL) | Fixed Carbon        | Total Sulphur (TSUL) | Volatiles Matter (VOL) | Fixed Carbon | Total Sulphur (TSUL) | Crucible Swelling Number (CSN) | Coal Caking Index (CCI) |  |
| 1               | 25347405   | 3.64                | 15.58     | 21.49                  | 59.29        | 1.01                 | 0.49            | 16.09     | 22.19                  | 61.23        | 1.04                 | 16.17     | 22.30                  | 61.53               | 1.05                 | 26.60                  | 73.40        | 1.25                 | 5.5                            | 3.3                     |  |
| 2               | 25347505   | 3.15                | 13.83     | 21.76                  | 61.26        | 0.94                 | 0.48            | 14.22     | 22.36                  | 62.95        | 0.97                 | 14.28     | 22.47                  | 63.25               | 0.97                 | 26.21                  | 73.79        | 1.14                 | 6.0                            | 69                      |  |
| 3               | 25348006   | 3.02                | 14.26     | 22.41                  | 60.31        | 1.02                 | 0.46            | 14.63     | 23.00                  | 61.90        | 1.04                 | 14.70     | 23.11                  | 62.19               | 1.05                 | 27.09                  | 72.91        | 1.23                 | 6.5                            | 77                      |  |
| 4               | 25349007   | 2.87                | 13.45     | 22.59                  | 61.09        | 0.95                 | 0.51            | 13.78     | 23.14                  | 62.57        | 0.99                 | 13.85     | 23.26                  | 62.89               | 0.99                 | 27.00                  | 73.00        | 1.15                 | 6.5                            | 80                      |  |
| 5               | 25349107   | 3.67                | 13.77     | 21.98                  | 60.57        | 1.08                 | 0.45            | 14.24     | 22.72                  | 62.60        | 1.11                 | 14.30     | 22.82                  | 62.88               | 1.12                 | 26.62                  | 73.38        | 1.30                 | 6.5                            | 77                      |  |
| 6               | 25349207   | 3.80                | 14.16     | 21.66                  | 60.38        | 1.06                 | 0.45            | 14.66     | 22.41                  | 62.48        | 1.09                 | 14.72     | 22.51                  | 62.76               | 1.10                 | 26.40                  | 73.60        | 1.29                 | 6.5                            | 77                      |  |
| 7               | 25357712   | 4.30                | 15.64     | 22.37                  | 57.69        | 0.69                 | 0.48            | 16.26     | 23.26                  | 59.99        | 0.71                 | 16.34     | 23.38                  | 60.28               | 0.72                 | 27.94                  | 72.06        | 0.86                 | 6.5                            | 80                      |  |
| 8               | 25357812   | 5.11                | 15.19     | 22.28                  | 57.42        | 0.67                 | 0.55            | 15.92     | 23.35                  | 60.18        | 0.70                 | 16.01     | 23.48                  | 60.51               | 0.70                 | 27.95                  | 72.05        | 0.84                 | 6.5                            | 76                      |  |
| 9               | 25357912   | 4.04                | 14.15     | 22.86                  | 58.95        | 0.94                 | 0.65            | 14.65     | 23.66                  | 61.04        | 0.97                 | 14.75     | 23.82                  | 61.43               | 0.98                 | 27.94                  | 72.06        | 1.15                 | 6.5                            | 80                      |  |
| 10              | 25360814   | 3.96                | 16.80     | 21.09                  | 58.15        | 1.27                 | 0.48            | 17.40     | 21.86                  | 60.26        | 1.31                 | 17.49     | 21.96                  | 60.55               | 1.32                 | 26.62                  | 73.38        | 1.60                 | 5.5                            | 68                      |  |
| 11              | 25360914   | 3.97                | 16.40     | 21.13                  | 58.50        | 0.93                 | 0.47            | 16.99     | 21.90                  | 60.63        | 0.96                 | 17.08     | 22.00                  | 60.92               | 0.97                 | 26.54                  | 73.46        | 1.17                 | 5.5                            | 67                      |  |
| 12              | 25361014   | 4.16                | 15.45     | 21.37                  | 59.02        | 0.95                 | 0.45            | 16.05     | 22.19                  | 61.31        | 0.98                 | 16.12     | 22.29                  | 61.58               | 0.99                 | 26.58                  | 73.42        | 1.18                 | 6.0                            | 69                      |  |
| 13              | 25366417   | 2.88                | 13.35     | 22.68                  | 61.09        | 0.61                 | 0.57            | 13.67     | 23.22                  | 62.54        | 0.62                 | 13.74     | 23.35                  | 62.90               | 0.63                 | 27.07                  | 72.93        | 0.73                 | 6.5                            | 80                      |  |
| 14              | 25366517   | 3.00                | 14.41     | 22.17                  | 60.42        | 0.88                 | 0.51            | 14.78     | 22.74                  | 61.97        | 0.91                 | 14.86     | 22.85                  | 62.29               | 0.91                 | 26.84                  | 73.16        | 1.07                 | 6.5                            | 80                      |  |
| 15              | 25366617   | 2.76                | 13.54     | 21.95                  | 61.74        | 0.66                 | 0.51            | 13.85     | 22.46                  | 63.18        | 0.67                 | 13.92     | 22.58                  | 63.50               | 0.68                 | 26.23                  | 73.77        | 0.78                 | 6.5                            | 79                      |  |
| 16              | 25369920   | 4.37                | 18.70     | 20.39                  | 56.54        | 0.79                 | 0.60            | 19.44     | 21.19                  | 58.76        | 0.82                 | 19.56     | 21.32                  | 59.12               | 0.82                 | 26.51                  | 73.49        | 1.02                 | 6.0                            | 68                      |  |
| 17              | 25370020   | 4.74                | 16.83     | 21.01                  | 57.42        | 0.74                 | 0.58            | 17.57     | 21.92                  | 59.93        | 0.77                 | 17.67     | 22.05                  | 60.38               | 0.77                 | 26.75                  | 73.25        | 0.94                 | 6.0                            | 74                      |  |
| 18              | 25370120   | 3.69                | 20.46     | 20.69                  | 55.16        | 0.67                 | 0.66            | 21.11     | 21.34                  | 56.89        | 0.69                 | 21.25     | 21.48                  | 57.27               | 0.69                 | 27.28                  | 72.72        | 0.88                 | 6.0                            | 69                      |  |

QUALITY ASSURANCE/QUALITY CONTROL DATA

| STDALSWS-41/25     | ASH   | VOL   | TSUL  |
|--------------------|-------|-------|-------|
| Certified Value    | 15.93 | 20.61 | 0.689 |
| Standard Deviation | 0.649 | 0.076 | 0.007 |
| % Unit             | %     | %     | %     |
| Analyzed value     | 18.91 | 20.58 | 0.684 |



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



[www.ett.mn](http://www.ett.mn)



75055555  
1800-1072



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

