
COAL QUALITY SPECIFICATION

Nº ETT_SP_CC



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



COAL STOCKPILES QUALITY (weighted average)

| | | |
|---|--|---|
| <p>TOTAL MOISTURE (ar)</p> <p>≤1.0%</p> | <p>ASH (db)</p> <p>13.5%</p> <p>(-2.0; +3.0)</p> | <p>VOLATILE MATTER (daf)</p> <p>27.0%</p> <p>(-2.0; +2.0)</p> |
| <p>TOTAL SULPHUR (db)</p> <p>≤1.0</p> | <p>G INDEX</p> <p>75</p> <p>(-10.0; +10.0)</p> | <p>QUANTITY</p> <p>1200.0</p> <p>THOUSAND TONS</p> |

THE FOLLOWING IS THE RESULT OF THE LABORATORY TESTS

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CERTIFICATE OF ANALYSIS
 23F67, 75, 107, 105, 105, 106, 111, 116, 131-TT

CLIENT: Erdenes Tavan Tolgoi JSC
 ADDRESS: Franco Center, Jigjidaa-II, Tselkhonos, Chinggiselai District, Ulaanbaatar, Mongolia
 ATTN: Bilgenmantel S
 PROJECT NO. xxx
 LAB. JOB NO. 23F67, 75, 107, 102, 105, 106, 111, 116, 131-TT
 NO. SAMPLES: 21
 Notes/Comments: xxx

SAMPLES RECEIVED: 14-26/06/2023
 INSTRUCTIONS RECEIVED: 14-26/06/2023
 DATE OF REPORT: 15-27/06/2023
 STATUS OF REPORT: FINAL
 ANALYSIS COMPLETE: 15-27/06/2023
 PREPARATION CODE: CRUSH-01, 02, MILL-01
 ANALYSIS CODE: 1. COOKING COAL CBN
 TML, ASH, MOCS, VOL, TSUL, CSN, CSNK

APPROVED BY: Laboratory Manager



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

| STANDARD METHOD | LAB NO. | SAMPLE NO. | AS RECEIVED BASIS | | | | | | | | | | | | | | Crucible Swelling Number (CSN) | Coal Caking Index (CCNK) | | | |
|-----------------|---------|------------|---------------------|-----------|------------------------|-------------------|----------------------|-----------------|-----------|------------------------|-------------------|----------------------|-----------|------------------------|-------------------|----------------------|--------------------------------|--------------------------------|-----|----|---|
| | | | Total Moisture (TM) | Ash (ASH) | Volatiles Matter (VOL) | Fixed Carbon (FC) | Total Sulphur (TSUL) | Moisture (MOIS) | Ash (ASH) | Volatiles Matter (VOL) | Fixed Carbon (FC) | Total Sulphur (TSUL) | Ash (ASH) | Volatiles Matter (VOL) | Fixed Carbon (FC) | Total Sulphur (TSUL) | | Crucible Swelling Number (CSN) | S1 | S3 | |
| ETT_SP_10550-1A | 1 | 1.02 | 10.94 | 21.87 | 66.07 | 0.32 | 0.55 | 10.99 | 22.07 | 66.38 | 0.53 | 11.05 | 22.20 | 66.75 | 0.53 | 24.56 | 75.04 | 0.29 | 7.0 | 62 | - |
| ETT_SP_10550-1B | 2 | 1.44 | 13.67 | 21.25 | 64.64 | 0.64 | 0.45 | 12.79 | 21.46 | 65.29 | 0.65 | 12.85 | 21.56 | 65.59 | 0.65 | 24.74 | 75.20 | 0.74 | 7.0 | 77 | - |
| ETT_SP_10550-1C | 3 | 0.87 | 13.43 | 21.57 | 64.14 | 0.72 | 0.39 | 13.49 | 21.67 | 64.45 | 0.72 | 13.54 | 21.76 | 64.70 | 0.72 | 25.16 | 74.84 | 0.84 | 7.8 | - | - |
| ETT_SP_10550-2A | 4 | 2.50 | 15.29 | 21.86 | 65.34 | 1.09 | 0.65 | 15.58 | 22.29 | 67.48 | 1.11 | 15.68 | 22.44 | 67.80 | 1.12 | 26.61 | 73.29 | 1.33 | 6.5 | 77 | - |
| ETT_SP_10550-2B | 5 | 2.70 | 14.15 | 21.72 | 61.42 | 1.38 | 0.63 | 14.45 | 22.18 | 62.71 | 1.41 | 14.54 | 22.33 | 63.13 | 1.42 | 26.12 | 73.68 | 1.67 | 6.5 | 74 | - |
| ETT_SP_10550-2C | 6 | 1.93 | 16.97 | 21.84 | 59.25 | 1.04 | 0.39 | 17.24 | 22.18 | 60.19 | 1.06 | 17.31 | 22.27 | 60.42 | 1.06 | 26.93 | 73.07 | 1.29 | 7.7 | - | - |
| ETT_SP_10550-3A | 7 | 1.35 | 13.31 | 22.35 | 62.98 | 0.85 | 0.28 | 13.66 | 22.60 | 63.66 | 0.86 | 13.69 | 22.66 | 63.85 | 0.86 | 26.20 | 73.60 | 1.00 | 6.5 | 80 | - |
| ETT_SP_10550-3B | 8 | 1.61 | 12.67 | 22.16 | 63.35 | 0.87 | 0.26 | 12.23 | 23.29 | 64.22 | 0.88 | 12.34 | 23.35 | 64.38 | 0.89 | 26.62 | 73.20 | 1.01 | 6.5 | 80 | - |
| ETT_SP_10550-3C | 9 | 1.79 | 12.53 | 21.76 | 63.21 | 1.00 | 0.40 | 13.14 | 22.12 | 64.34 | 1.22 | 13.20 | 22.21 | 64.40 | 1.22 | 25.39 | 74.42 | 1.41 | 6.5 | 78 | - |
| ETT_SP_10550-4A | 10 | 1.45 | 14.38 | 21.92 | 62.25 | 1.09 | 0.53 | 14.51 | 22.33 | 62.93 | 1.10 | 14.59 | 22.24 | 63.18 | 1.10 | 26.04 | 73.16 | 1.29 | 6.5 | 80 | - |
| ETT_SP_10550-4B | 11 | 1.91 | 15.23 | 21.33 | 61.54 | 1.20 | 0.52 | 15.48 | 21.63 | 62.60 | 1.22 | 15.53 | 21.74 | 62.73 | 1.22 | 25.74 | 74.26 | 1.45 | 6.0 | 71 | - |
| ETT_SP_10550-4C | 12 | 2.11 | 17.64 | 20.34 | 59.90 | 1.12 | 0.58 | 17.92 | 20.66 | 60.84 | 1.14 | 18.02 | 20.78 | 61.19 | 1.15 | 25.35 | 74.65 | 1.40 | 5.5 | 65 | - |
| ETT_SP_10550-5A | 13 | 2.12 | 13.56 | 21.34 | 62.99 | 1.16 | 0.51 | 13.78 | 21.69 | 64.03 | 1.18 | 13.85 | 21.80 | 64.24 | 1.19 | 25.31 | 74.60 | 1.20 | 6.5 | 81 | - |
| ETT_SP_10550-5B | 14 | 2.22 | 11.86 | 21.68 | 64.04 | 0.67 | 0.55 | 12.07 | 22.25 | 65.13 | 0.68 | 12.13 | 22.37 | 65.49 | 0.69 | 25.46 | 74.54 | 0.78 | 6.5 | 83 | - |
| ETT_SP_10550-5C | 15 | 2.28 | 10.34 | 22.11 | 65.27 | 0.50 | 0.57 | 10.52 | 22.50 | 66.41 | 0.57 | 10.58 | 22.63 | 66.79 | 0.57 | 25.91 | 74.69 | 0.58 | 6.5 | 83 | - |
| ETT_SP_10550-6A | 16 | 3.40 | 13.30 | 21.38 | 61.84 | 0.88 | 0.62 | 13.77 | 21.99 | 63.61 | 0.91 | 13.86 | 22.13 | 64.01 | 0.91 | 25.60 | 74.31 | 1.06 | 6.5 | 76 | - |
| ETT_SP_10550-6B | 17 | 3.50 | 14.85 | 21.09 | 60.57 | 0.95 | 0.62 | 15.20 | 21.72 | 62.37 | 0.98 | 15.38 | 21.86 | 62.76 | 0.99 | 25.83 | 74.17 | 1.17 | 6.0 | 68 | - |
| ETT_SP_10550-6C | 18 | 2.95 | 14.33 | 20.14 | 60.58 | 1.20 | 0.50 | 14.68 | 22.48 | 63.04 | 1.23 | 14.76 | 22.62 | 63.42 | 1.24 | 26.77 | 72.23 | 1.45 | 6.5 | 78 | - |
| ETT_SP_10550-7A | 19 | 2.27 | 13.52 | 21.51 | 62.60 | 0.65 | 0.48 | 13.79 | 21.93 | 63.81 | 0.65 | 13.85 | 22.03 | 64.52 | 0.66 | 25.57 | 74.42 | 0.76 | 6.5 | 75 | - |
| ETT_SP_10550-7B | 20 | 2.13 | 13.31 | 22.22 | 62.35 | 0.66 | 0.46 | 13.53 | 22.60 | 63.41 | 0.67 | 13.60 | 22.70 | 63.70 | 0.67 | 26.27 | 73.73 | 0.78 | 6.5 | 82 | - |
| ETT_SP_10550-7C | 21 | 2.24 | 12.76 | 22.42 | 62.57 | 0.80 | 0.47 | 12.99 | 22.83 | 63.71 | 0.82 | 13.05 | 22.94 | 64.01 | 0.82 | 26.38 | 73.82 | 0.94 | 6.5 | 80 | - |

QUALITY ASSURANCE/QUALITY CONTROL DATA

| STDALSP05-03/20 | ASH | VOL | TSUL |
|--------------------|-------|-------|-------|
| Certified Value | 13.53 | 27.10 | 63.16 |
| Standard Deviation | 0.03 | 0.16 | 0.017 |
| Limit | % | % | % |
| Analysed value | 10.81 | 18.11 | 63.7 |

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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ISO 9001:2015



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