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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)

TOTAL  
MOISTURE (ar)**≤9.0%**

ASH (db)

**<15.0%**VOLATILE  
MATTER (daf)**34.0%**

(Max)

TOTAL SULPHUR (db)

**1.0%**

(-0.3; +0.5)

Calorific value

CV (ar)

**>6000**

G INDEX

**>5-30**

## THE FOLLOWING IS THE RESULT OF THE LABORATORY TESTS

| 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) | Volatle Matter (VOL) | Fixed Carbon (FC) | Total Sulphur (TSUL) | Gross Calorific Value (GCV) | Moisture (MOIS) | Ash (ASH) | Volatle Matter (VOL) | Fixed Carbon (FC) | Total Sulphur (TSUL) | Gross Calorific Value (GCV) |
|                 |                     | %                   |           |                      |                   |                      |                             | %               |           |                      |                   |                      |                             |
|                 |                     | kcal/kg             |           |                      |                   |                      |                             | kcal/kg         |           |                      |                   |                      |                             |
| 14              | ETT_SP_30009-2G     | 3.77                | 22.55     | 19.42                | 54.26             | 0.60                 | 6013                        | 1.39            | 23.11     | 19.90                | 55.60             | 0.61                 | 6162                        |
| 15              | ETT_SP_30009-2H     | 2.39                | 17.03     | 20.05                | 60.53             | 0.70                 | 6770                        | 1.15            | 17.24     | 20.31                | 61.30             | 0.71                 | 6856                        |
| 16              | WSS-23-6-1TR-3A-169 | 4.16                | 22.56     | 25.32                | 47.97             | 0.93                 | 5814                        | 0.94            | 23.31     | 26.17                | 49.58             | 0.96                 | 6010                        |
| 17              | WSS-23-6-1TR-3B-170 | 3.26                | 18.68     | 26.13                | 51.93             | 0.63                 | 6449                        | 0.68            | 19.17     | 26.83                | 53.32             | 0.64                 | 6620                        |
| 18              | WSS-23-6-1tr-3C-184 | 3.27                | 24.96     | 23.30                | 48.47             | 0.49                 | 5758                        | 0.80            | 25.60     | 23.89                | 49.70             | 0.50                 | 5905                        |
| 19              | WSS-23-6-1tr-3D-188 | 3.49                | 19.59     | 25.24                | 51.68             | 0.68                 | 6295                        | 0.91            | 20.11     | 25.92                | 53.06             | 0.70                 | 6463                        |
| 20              | ETT_SP_30009-3E     | 2.70                | 19.52     | 26.33                | 51.45             | 0.47                 | 6085                        | 0.98            | 19.86     | 26.79                | 52.36             | 0.48                 | 6193                        |
| 21              | ETT_SP_30009-3F     | 2.68                | 23.15     | 25.43                | 48.74             | 0.58                 | 5724                        | 0.97            | 23.56     | 25.87                | 49.59             | 0.59                 | 5824                        |
| 22              | ETT_SP_30009-3G     | 1.92                | 22.68     | 21.83                | 53.57             | 0.58                 | 6331                        | 0.91            | 22.91     | 22.06                | 54.12             | 0.59                 | 6397                        |
| 23              | ETT_SP_30009-3H     | 1.85                | 20.40     | 23.13                | 54.63             | 0.67                 | 6399                        | 1.10            | 20.55     | 23.31                | 55.04             | 0.68                 | 6447                        |
| 24              | WSS-23-6-1tr-4A-218 | 6.40                | 14.48     | 24.92                | 54.21             | 0.35                 | 6280                        | 2.04            | 15.15     | 26.08                | 56.73             | 0.37                 | 6572                        |
| 25              | WSS-23-6-1tr-4B-229 | 5.50                | 19.02     | 23.59                | 51.89             | 1.18                 | 6013                        | 0.88            | 19.95     | 24.74                | 54.43             | 1.24                 | 6162                        |
| 26              | WSS-23-6-1tr-4C-223 | 3.24                | 21.48     | 24.68                | 50.61             | 0.40                 | 6016                        | 0.82            | 22.01     | 25.30                | 51.87             | 0.41                 | 6166                        |
| 27              | WSS-23-6-1TR-4D-271 | 4.37                | 20.03     | 23.23                | 52.37             | 0.66                 | 6132                        | 1.09            | 20.72     | 24.02                | 54.17             | 0.68                 | 6342                        |
| 28              | ETT_SP_30009-4E     | 2.90                | 18.11     | 25.38                | 53.61             | 0.58                 | 6434                        | 0.80            | 18.50     | 25.93                | 54.77             | 0.59                 | 6573                        |
| 29              | ETT_SP_30009-4F     | 3.00                | 18.25     | 24.47                | 54.28             | 0.37                 | 6412                        | 0.82            | 18.66     | 25.02                | 55.50             | 0.38                 | 6556                        |
| 30              | ETT_SP_30009-4G     | 1.44                | 29.74     | 23.45                | 45.36             | 0.61                 | 5501                        | 0.79            | 29.94     | 23.61                | 45.66             | 0.62                 | 5537                        |
| 31              | WSS-23-6-1TR-5A-329 | 2.26                | 14.54     | 27.27                | 55.93             | 0.71                 | 6988                        | 0.73            | 14.77     | 27.69                | 56.81             | 0.72                 | 7098                        |
| 32              | WSS-23-6-1TR-5B-330 | 5.72                | 21.94     | 22.94                | 49.40             | 0.84                 | 5676                        | 1.56            | 22.91     | 23.95                | 51.58             | 0.87                 | 5927                        |
| 33              | WSS-23-6-1TR-5C-335 | 9.27                | 27.71     | 21.57                | 41.45             | 0.69                 | 4631                        | 2.86            | 29.67     | 23.09                | 44.38             | 0.74                 | 4958                        |
| 34              | ETT_SP_30009-5D     | 2.59                | 18.03     | 24.58                | 54.80             | 0.50                 | 6504                        | 0.89            | 18.34     | 25.01                | 55.75             | 0.50                 | 6618                        |
| 35              | ETT_SP_30009-5E     | 1.91                | 21.58     | 24.92                | 51.59             | 0.50                 | 6157                        | 0.97            | 21.78     | 25.16                | 52.09             | 0.50                 | 6216                        |
| 36              | ETT_SP_30009-5F     | 5.51                | 24.78     | 22.74                | 46.97             | 0.72                 | 5558                        | 0.92            | 25.99     | 23.85                | 49.25             | 0.75                 | 5828                        |
| 37              | ETT_SP_30009-5G     | 3.82                | 25.75     | 21.52                | 48.91             | 0.92                 | 5764                        | 0.81            | 26.56     | 22.19                | 50.44             | 0.95                 | 5945                        |
| 38              | ETT_SP_30009-5H     | 3.67                | 21.03     | 22.30                | 53.00             | 0.56                 | 6180                        | 0.89            | 21.64     | 22.94                | 54.53             | 0.58                 | 6358                        |
| 39              | ETT_SP_30009-6A     | 1.36                | 27.03     | 22.77                | 48.84             | 0.67                 | 5787                        | 0.66            | 27.22     | 22.93                | 49.18             | 0.68                 | 5828                        |
| 40              | ETT_SP_30009-6B     | 2.26                | 21.99     | 25.30                | 50.46             | 0.77                 | 6025                        | 0.81            | 22.32     | 25.67                | 51.20             | 0.78                 | 6115                        |
| 41              | ETT_SP_30009-6C     | 1.17                | 25.98     | 24.69                | 48.16             | 2.23                 | 5743                        | 0.87            | 26.06     | 24.77                | 48.31             | 2.24                 | 5760                        |
| 42              | ETT_SP_30009-6D     | 1.37                | 22.69     | 25.75                | 50.19             | 0.74                 | 6060                        | 0.86            | 22.81     | 25.88                | 50.45             | 0.75                 | 6091                        |
| 43              | ETT_SP_30009-6E     | 1.43                | 25.62     | 24.01                | 48.94             | 1.28                 | 5862                        | 0.62            | 25.83     | 24.21                | 49.35             | 1.29                 | 5911                        |
| 44              | ETT_SP_30009-6F     | 1.30                | 20.97     | 24.87                | 52.87             | 0.53                 | 6289                        | 0.92            | 21.05     | 24.97                | 53.07             | 0.53                 | 6313                        |
| 45              | ETT_SP_30009-6G     | 1.80                | 19.11     | 24.29                | 54.81             | 1.10                 | 6538                        | 0.65            | 19.33     | 24.57                | 55.45             | 1.11                 | 6615                        |
| 46              | ETT_SP_30009-6H     | 2.05                | 15.31     | 23.51                | 59.13             | 0.86                 | 6936                        | 0.61            | 15.54     | 23.86                | 60.00             | 0.87                 | 7038                        |
| 47              | ETT_SP_30010-1A     | 3.38                | 19.59     | 24.11                | 52.92             | 0.43                 | 6288                        | 0.90            | 20.10     | 24.73                | 54.27             | 0.44                 | 6449                        |
| 48              | ETT_SP_30010-1B     | 3.16                | 19.43     | 24.26                | 53.15             | 0.58                 | 6361                        | 0.76            | 19.91     | 24.86                | 54.46             | 0.60                 | 6519                        |
| 49              | ETT_SP_30010-1C     | 4.02                | 12.90     | 27.53                | 55.55             | 0.63                 | 6945                        | 0.85            | 13.32     | 28.44                | 57.39             | 0.65                 | 7174                        |
| 50              | ETT_SP_30010-2A     | 5.03                | 17.64     | 23.04                | 54.29             | 0.59                 | 6371                        | 1.12            | 18.36     | 23.99                | 56.52             | 0.61                 | 6634                        |
| 51              | ETT_SP_30010-2B     | 3.60                | 23.95     | 22.15                | 50.30             | 0.60                 | 6078                        | 0.81            | 24.64     | 22.79                | 51.75             | 0.62                 | 6253                        |
| 52              | ETT_SP_30010-2C     | 4.01                | 14.34     | 25.98                | 55.67             | 0.45                 | 6791                        | 1.31            | 14.74     | 26.71                | 57.24             | 0.46                 | 6982                        |
| 53              | ETT_SP_30010-3A     | 5.14                | 17.86     | 22.84                | 54.16             | 0.50                 | 6304                        | 1.18            | 18.60     | 23.79                | 56.43             | 0.52                 | 6567                        |
| 54              | ETT_SP_30010-3B     | 5.67                | 13.13     | 21.23                | 59.98             | 0.78                 | 6799                        | 1.18            | 13.75     | 22.23                | 62.83             | 0.81                 | 7122                        |
| 55              | ETT_SP_30010-3C     | 2.84                | 21.75     | 24.01                | 51.40             | 0.69                 | 6304                        | 0.60            | 22.25     | 24.57                | 52.59             | 0.71                 | 6450                        |
| 56              | ETT_SP_30010-4A     | 5.09                | 20.17     | 19.46                | 55.29             | 0.48                 | 6069                        | 1.41            | 20.95     | 20.21                | 57.43             | 0.50                 | 6305                        |
| 57              | ETT_SP_30010-4B     | 3.13                | 26.21     | 21.27                | 49.40             | 0.70                 | 5755                        | 1.01            | 26.78     | 21.73                | 50.48             | 0.72                 | 5881                        |

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.  
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Page 2 of 6