



master com

## 10200 STEAM COAL

|                            | Parameter                      | Basis       | Typical Specification Units |
|----------------------------|--------------------------------|-------------|-----------------------------|
| <b>Calorific Value</b>     | GCV                            | As received | 5,670 kcal/kg               |
|                            |                                | As received | 10,203 BTU/lb               |
|                            |                                | As received | 23.74 MJ/kg                 |
|                            | NCV                            | As received | 5,376 kcal/kg               |
|                            |                                | As received | 9,674 BTU/lb                |
|                            |                                | As received | 22.51 MJ/kg                 |
| <b>Proximate Analysis</b>  | Total Moisture                 | As received | 16.8 %                      |
|                            | Ash                            | As received | 9.0 %                       |
|                            | Volatile Matter                | As received | 37.3 %                      |
|                            | Fixed Carbon (by diff.)        | As received | 36.9 %                      |
|                            | Total Sulphur                  | As received | 1.04 %                      |
| <b>Ultimate Analysis</b>   | Carbon                         | Dry         | 68.66 %                     |
|                            | Hydrogen                       | Dry         | 4.60 %                      |
|                            | Nitrogen                       | Dry         | 1.74 %                      |
|                            | Sulphur                        | Dry         | 1.25 %                      |
|                            | Ash                            | Dry         | 10.82 %                     |
|                            | Oxygen                         | Dry         | 12.94 %                     |
| <b>Ash Analysis</b>        | SiO <sub>2</sub>               | Dry         | 54.05 %                     |
|                            | Al <sub>2</sub> O <sub>3</sub> | Dry         | 22.93 %                     |
|                            | Fe <sub>2</sub> O <sub>3</sub> | Dry         | 8.19 %                      |
|                            | CaO                            | Dry         | 5.07 %                      |
|                            | MgO                            | Dry         | 2.21 %                      |
|                            | TiO <sub>2</sub>               | Dry         | 1.13 %                      |
|                            | K <sub>2</sub> O               | Dry         | 0.88 %                      |
|                            | Na <sub>2</sub> O              | Dry         | 1.18 %                      |
|                            | SO <sub>3</sub>                | Dry         | 6.67 %                      |
|                            | P <sub>2</sub> O <sub>5</sub>  | Dry         | 0.11 %                      |
| <b>Ash Fusion</b>          | Initial Deformation            | Reducing    | 1,227 °C                    |
|                            | Spherical                      | Reducing    | 1,252 °C                    |
|                            | Hemispherical                  | Reducing    | 1,329 °C                    |
|                            | Flow                           | Reducing    | 1,359 °C                    |
| <b>Ash characteristics</b> | Base to Acid ratio             |             | 0.22                        |
|                            | Slagging index                 |             | 0.28                        |
|                            | Fouling index                  |             | 0.26                        |
| <b>Handling</b>            | HGI                            |             | 50                          |
|                            | Nominal topsize                |             | 0 mm                        |
|                            | Fuel ratio                     |             | 0.99                        |