

## Carbo One - Washed SS-coal

### Indicative Specifications on As Received basis (%)

|                                | PCI coal    |       |       |
|--------------------------------|-------------|-------|-------|
|                                | Typical     | min   | max   |
| Moisture                       | 8.00        |       | 10.00 |
| Ash                            | 7.00        |       | 8.00  |
| Volatile                       | 18.00       | 17.00 | 21.00 |
| Sulphur                        | 0.25        |       | 0.35  |
| Net CV                         | 6900 - 7100 | 6 700 |       |
| HGI                            | 65 - 75     |       |       |
| Phosphorus dry                 | 0.030       |       |       |
| <b>Ultimate analysis (DAF)</b> |             |       |       |
| Carbon                         | 90.33       |       |       |
| Hydrogen                       | 4.11        |       |       |
| Nitrogen                       | 2.31        |       |       |
| Oxygen                         | 3.01        |       |       |

### Ash Fusion Temp (Reducing Atmosphere)

|             |       |       |
|-------------|-------|-------|
| Deformation | 1 190 | 1 140 |
| Softening   | 1 210 | 1 160 |
| Hemisphere  | 1 220 | 1 170 |
| Flow        | 1 270 | 1 220 |

### Ash mineral analysis (dry)

|                                |                      |       |
|--------------------------------|----------------------|-------|
| SiO <sub>2</sub>               | Silicon Dioxide      | 46.37 |
| Al <sub>2</sub> O <sub>3</sub> | Aluminium Oxide      | 20.75 |
| Fe <sub>2</sub> O <sub>3</sub> | Iron Oxide           | 10.33 |
| TiO <sub>2</sub>               | Titanium Dioxide     | 0.75  |
| CaO                            | Calcium Oxide        | 10.05 |
| MgO                            | Magnesium Oxide      | 4.40  |
| K <sub>2</sub> O               | Potassium Oxide      | 1.49  |
| Na <sub>2</sub> O              | Sodium Oxide         | 0.30  |
| SO <sub>3</sub>                | Sulphur Trioxide     | 4.78  |
| P <sub>2</sub> O <sub>5</sub>  | Phosphorus Pentoxide | 0.56  |
| Mn <sub>3</sub> O <sub>4</sub> | Manganese Dioxide    | 0.22  |

|     |      |
|-----|------|
| FSI | 0.50 |
|-----|------|

### Size Fraction (approximately) %

|         |                    |
|---------|--------------------|
| 0-1mm   | 20                 |
| 1-6mm   | 25                 |
| 6-13mm  | 19                 |
| 13-25mm | 17                 |
| 25-50mm | 17                 |
| >50mm   | 2 .+50 mm - 5% max |