

|                                |                                   |           |                    |                                 |                                |                                          |                                          |      |  |
|--------------------------------|-----------------------------------|-----------|--------------------|---------------------------------|--------------------------------|------------------------------------------|------------------------------------------|------|--|
| Cermic Fiber Bord              | Physical Properties               |           | BURNER BLOCK 3R/2R | Physical Properties             |                                | TRMOR 51                                 | Physical Properties                      |      |  |
|                                | Classification Temp. (°C)         | 1260      |                    | MAX. Grain Size (mm)            | 5                              |                                          | Max. Service Temp. (°C)                  | 1300 |  |
|                                | Service Temp. (°C)                | 1100      |                    | Max. Service Temp. (°C)         | 1600                           |                                          | Bulk Dencsity (g/cm³)                    | ≤0.8 |  |
|                                | Color                             | White     |                    | Bulk Dencsity (kg/m³)           |                                |                                          | Cold Crushing Strenght (kg/cm²)          | >18  |  |
|                                | Dencsity (kg/m³)                  | 300       |                    | At 110°C                        | >2.75                          |                                          | Permanent Liner Change (1200°C/24 h) (%) | <1   |  |
|                                | Liner Shrinkage (1100/24 h) (%)   | ≤4        |                    | At 1600°C                       | >2.60                          |                                          | Thermal Conductivity (w/m°k)             |      |  |
|                                | Thermal Conductivity (w/m.k°)     | 0.2-0.3   |                    | Cold Crushing Strenght (kg/cm²) |                                |                                          | At 400°C                                 | 0.27 |  |
|                                | Chemical Properties               |           |                    | At 110°C                        | 85-95                          |                                          | At 600°C                                 | 0.29 |  |
|                                | Al <sub>2</sub> O <sub>3</sub>    | 40-45     |                    | At 1600°C                       | >120                           |                                          | At 800°C                                 | 0.31 |  |
|                                | SiO <sub>2</sub>                  | 45-50     |                    | Permanent Liner Change (%)      |                                |                                          | Chemical Analysis (%)                    |      |  |
| Fe <sub>2</sub> O <sub>3</sub> | ≤0.8                              | At 110°C  |                    | -0.1                            | Al <sub>2</sub> O <sub>3</sub> | ≤38-40                                   |                                          |      |  |
| TRCAST LW 166                  | Maximum Service Temp. (°C)        | 1250      |                    | At 1600°C                       | -0.3                           | SiO <sub>2</sub>                         | ≤44-46                                   |      |  |
|                                | Mximum Water Require (%)          | 35-50     |                    | Thermal Conductivity (w/m°k)    |                                | Fe <sub>2</sub> O <sub>3</sub>           | ≤2.0                                     |      |  |
|                                | Bulk Dencsity (kg/m³)             | 900-1100  |                    | At 400°C                        | <1.4                           | Required Water for Trawelling (lit/40kg) | 10-12                                    |      |  |
|                                | Cold Crushing Strenght (kg/m²)    |           |                    | At 600°C                        | <2.1                           | Refractoriness. (°C)                     | 1670                                     |      |  |
|                                | At 110°C                          | 25-50     |                    | At 1000°C                       | <2.3                           | Chemical Analysis (%)                    |                                          |      |  |
|                                | At 1250°C                         | 30-55     |                    | Chemical Analysis (%)           |                                | Al <sub>2</sub> O <sub>3</sub>           | 49                                       |      |  |
|                                | Thermal Conductivity (kcal/h.m°C) |           |                    | Al <sub>2</sub> O <sub>3</sub>  | 62-67                          | SiO <sub>2</sub>                         | 45                                       |      |  |
|                                | At 400°C                          | 0.22      |                    | SiO <sub>2</sub>                | 5-8                            | Fe <sub>2</sub> O <sub>3</sub>           | 2.8                                      |      |  |
|                                | At 600°C                          | 0.23      |                    | Fe <sub>2</sub> O <sub>3</sub>  | <1.5                           |                                          |                                          |      |  |
|                                | At 1000°C                         | 0.31      |                    | P <sub>2</sub> O <sub>5</sub>   | 3-5                            |                                          |                                          |      |  |
| TRCAST 170                     | Chemical Analysis                 |           |                    |                                 |                                |                                          |                                          |      |  |
|                                | Al <sub>2</sub> O <sub>3</sub>    | 37        |                    |                                 |                                |                                          |                                          |      |  |
|                                | SiO <sub>2</sub>                  | 44        |                    |                                 |                                |                                          |                                          |      |  |
|                                | Fe <sub>2</sub> O <sub>3</sub>    | 4.5       |                    |                                 |                                |                                          |                                          |      |  |
|                                | CaO                               | 11.5      |                    |                                 |                                |                                          |                                          |      |  |
|                                | Maximum Service Temp. (°C)        | 1670      |                    |                                 |                                |                                          |                                          |      |  |
|                                | Mximum Water Require (%)          | 9.5-11.5  |                    |                                 |                                |                                          |                                          |      |  |
|                                | Bulk Dencsity (kg/m³)             | 2350-2450 |                    |                                 |                                |                                          |                                          |      |  |
|                                | Cold Crushing Strenght (kg/m²)    |           |                    |                                 |                                |                                          |                                          |      |  |
|                                | At 110°C                          | 400-650   |                    |                                 |                                |                                          |                                          |      |  |
| At 1360°C                      | 500-750                           |           |                    |                                 |                                |                                          |                                          |      |  |
|                                | Chemical Analysis                 |           |                    |                                 |                                |                                          |                                          |      |  |
|                                | Al <sub>2</sub> O <sub>3</sub>    | 70        |                    |                                 |                                |                                          |                                          |      |  |
|                                | SiO <sub>2</sub>                  | 22.9      |                    |                                 |                                |                                          |                                          |      |  |
|                                | Fe <sub>2</sub> O <sub>3</sub>    | 1.8       |                    |                                 |                                |                                          |                                          |      |  |
|                                | CaO                               | 3.7       |                    |                                 |                                |                                          |                                          |      |  |