



## AZAR SHAHAB REFRACTORIES CO.

### ARCAST 30ET

#### General Properties

|                                   |   |
|-----------------------------------|---|
| <b>Classification</b> .....       | Insulating Castable                                 |
| <b>Description</b> .....          | Light Weight Hydraulic Bonded Refractory Trowelling |
| <b>Raw Material Basis</b> .....   | Light Weight Aggregate                              |
| <b>Bond</b> .....                 | Hydraulic   |
| <b>Installing Method</b> .....    | Trowelling  |
| <b>Packaging</b> .....            | 20 kg net weight multi proof sacks                  |
| <b>Storage Life (Month)</b> ..... | 9   |
| <b>Grain Size (mm)</b> .....      | Max 5   |
| <b>Water Required (%)</b> .....   | 85-95   |

#### Main Chemical Component

| Al <sub>2</sub> O <sub>3</sub> (%) | SiO <sub>2</sub> (%) | Fe <sub>2</sub> O <sub>3</sub> (%) | CaO (%) |
|------------------------------------|----------------------|------------------------------------|---------|
| 27                                 | 40                   | 7                                  | 20      |

#### Physical & Thermal Properties

|   |                  |
|---|------------------|
| <b>Maximum Service Temperature (°C)</b> .....           | 1000             |
| <b>Bulk Density at 1000°C (gr/cm<sup>3</sup>)</b> ..... | 0.6-0.80         |
| <b>Cold Crushing Strength (kg/cm<sup>2</sup>)</b>       |                  |
| After Drying at 110 °C .....                            | 10-20            |
| After Firing at 500 °C.....                             | 5-15             |
| <b>Permanent Linear Change (%)</b>                      |                  |
| After Drying at 110 °C .....                            | (-0.3) to (-0.1) |
| After Firing at 800 °C .....                            | (-1.5) to (-0.5) |
| <b>Thermal Conductivity (w/m<sup>2</sup>K)</b>          |                  |
| After Firing at 800 °C.....                             | 0.17             |

All data subject to reasonable deviation and therefore, should not be used for specification purposes.

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