



# AZAR SHAHAB REFRACTORIES CO.

## ARCASTA94ULCC

### General Properties

|                                   |                                                       |
|-----------------------------------|-------------------------------------------------------|
| <b>Classification</b> .....       | High Alumina Castable                                 |
| <b>Description</b> .....          | Ultra Low Cement Hydraulic Bonded Refractory Castable |
| <b>Raw Material Basis</b> .....   | Tabular Alumina                                       |
| <b>Bond</b> .....                 | Hydraulic                                             |
| <b>Installing Method</b> .....    | Casting / Vibrating                                   |
| <b>Packaging</b> .....            | 25 kg net weight multi proof sacks                    |
| <b>Storage Life (Month)</b> ..... | 9                                                     |
| <b>Grain Size (mm)</b> .....      | Max 6                                                 |
| <b>Water Required (%)</b> .....   | 5.0-7.0                                               |

### Main Chemical Component

| Al <sub>2</sub> O <sub>3</sub> (%) | SiO <sub>2</sub> (%) | Fe <sub>2</sub> O <sub>3</sub> (%) | CaO (%) |
|------------------------------------|----------------------|------------------------------------|---------|
| 94                                 | 4.5                  | 0.5                                | 1       |

### Physical & Thermal Properties

|                                                         |                  |
|---------------------------------------------------------|------------------|
| <b>Maximum Service Temperature (°C)</b> .....           | 1880             |
| <b>Bulk Density at 110 °C (gr/cm<sup>3</sup>)</b> ..... | 2.90-3.10        |
| <b>Cold Crushing Strength (kg/cm<sup>2</sup>)</b>       |                  |
| After Drying at 110 °C .....                            | 800-1000         |
| After Firing at 1400 °C.....                            | 900-1100         |
| <b>Permanent Linear Change (%)</b>                      |                  |
| After Drying at 110 °C .....                            | Negligible       |
| After Firing at 1000 °C .....                           | (-0.2) to (+0.2) |

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

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