

# AZAR SHAHAB REFRACTORIES CO.



## ARCAST A90ULCC

(Ultra Low Cement Castable )

### General Properties

<b>Classification</b>	<b>High Alumina Castable</b>
<b>Description</b>	<b>Ultra Low Cement Hydraulic Bonded Refractory Castable</b>
<b>Raw Material Basis</b>	<b>Tabular Alumina</b>
<b>Bond</b>	<b>Hydraulic</b>
<b>Installing Method</b>	<b>Casting / Vibrating</b>
<b>Packaging</b>	<b>25 Kg net weight multi proof sacks</b>
<b>Storage (month)</b>	<b>6</b>
<b>Grain Size (mm)</b>	<b>0 – 6</b>
<b>Maximum Water Required (%)</b>	<b>4 - 6</b>

### Thermal and Physical Properties

<b>Maximum Service Temperature (°c)</b>	<b>1750</b>
<b>Bulk Density at 110 °c ( gr/cm<sup>3</sup> )</b>	<b>2.9 – 3.1</b>
<b>Cold Crushing Strength ( kg/cm<sup>2</sup> )</b> after drying at 1000 °c after firing at 1400 °c	<b>1200 - 1400</b> <b>1300 - 1500</b>
<b>Permanent Linear Change (%)</b> after drying at 110 °c after firing at 1000 °c	<b>Negligible</b> <b>(-0.2) to (+0.2)</b>

### Chemical Analysis

<b>Al<sub>2</sub>O<sub>3</sub></b> (%)	<b>Min 90</b>
<b>SiO<sub>2</sub></b> (%)	<b>5</b>
<b>Fe<sub>2</sub>O<sub>3</sub></b> (%)	<b>0.5</b>
<b>CaO</b> (%)	<b>0.8</b>

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