



## AZAR SHAHAB REFRACTORIES CO.

### ARB-AI85SP

#### General Properties

Classification.....High Alumina Phosphate bonded Brick  
Raw Material Basis..... Bauxite  
Type of Bond.....Chemical

#### Main Chemical Component

$Al_2O_3$ (%) + $P_2O_5$ (%)	$SiO_2$ (%)	$Fe_2O_3$ (%)
82	12	2.2

#### Physical & Thermal Properties

Reversible Thermal Expansion at 1000 °C (%) ..... 0.70-0.80  
Bulk Density (gr/cm<sup>3</sup>) ..... 2.70-2.80  
Apparent Porosity (%) ..... 16-20  
Cold Crushing Strength (kg/cm<sup>2</sup>) ..... 800-1000  
Refractoriness (°C) ..... 1830  
Refractoriness Under Load (°C) ..... 1410-1430  
Thermal Shock at 1000 °C (cycle) ..... 25-35

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

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