

PRODUCT

**ULTRA-TEK 95 UL**  
**HIGH PURITY ALUMINA**  
**ULTRA-LOW CEMENT CASTABLE**

**REFRACTORIES**

**TECHNICAL DATA**

PHYSICAL PROPERTIES (self flow)

Maximum Service Temperature	3250°F
Lbs. Required Dry Mix per Cu. Ft.	193 lbs./cu.ft.
Bulk Density After Drying at 230°F	195 lbs./cu.ft.

Cold Crushing Strength

After Firing to 1500°F	6000 – 12000 psi
After Firing to 2600°F	12000 – 20000 psi

Modulus of Rupture

After Drying at 230°F	800 – 1400 psi
Hot MOR at 1500°F	2500 – 3500 psi
Hot MOR at 2500°F	900 – 1600 psi

Abrasion Loss After 1500°F

4 – 6 cc

Apparent Porosity After 2500°F

14 – 18%

Permanent Linear Change

After Drying at 230°F	Negligible
After Heating to 1500°F	0.0 to -0.4%
After Heating to 2600°F	-0.3 to +0.8%

Permanent Volume Change After 2600°F

-0.5 to +2.0%

CHEMICAL ANALYSIS

Silica	[SiO <sub>2</sub> ]	5.7%
Alumina	[Al <sub>2</sub> O <sub>3</sub> ]	93.3%
Iron Oxide	[Fe <sub>2</sub> O <sub>3</sub> ]	<0.1%
Lime	[CaO]	0.7%
Trace Minerals, Alkalis		0.2%

NOTE: All data subject to reasonable deviation and should not be used for specification purposes.

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