

PRODUCT

**ULTRA-TEK AZS NC**  
HIGH DENSITY, ZIRCONIA-MULLITE,  
NO CEMENT CASTABLE/SHOTCRETE

**REFRACTORIES**

**TECHNICAL DATA**

PHYSICAL PROPERTIES

Maximum Service Temperature	2800°F
Lbs. Required Dry Mix per Cu. Ft.	183 lbs.
% Water by Weight Required for Pumping (approx.)	5.0%
Bulk Density After Drying at 250°F	185 lbs./cu.ft.

Modulus of Rupture

After Drying	1500 psi
HMOR At 1500°F	1800 psi
HMOR At 2550°F	600 psi

Cold Crushing Strength

After 1500°F	9000 psi
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Permanent Linear Change

After 1500°F	-0.1%
After 2550°F	+0.8%

CHEMICAL ANALYSIS

Silica	[SiO <sub>2</sub> ]	25.1%
Alumina	[Al <sub>2</sub> O <sub>3</sub> ]	44.8%
Zirconium Oxide	[ZrO <sub>2</sub> ]	28.1%
Iron Oxide	[Fe <sub>2</sub> O <sub>3</sub> ]	0.2%
Lime	[CaO]	0.2%
Titania	[TiO <sub>2</sub> ]	0.3%
Other		1.3%

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

2121



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