

PRODUCT

ULTRA-TEK AZS
HIGH DENSITY, ZIRCONIA-MULLITE
CASTABLE/SHOTCRETE

REFRACTORIES

TECHNICAL DATA

PHYSICAL PROPERTIES

Maximum Service Temperature	2800°F
Lbs. Required Dry Mix per Cu. Ft.	195 lbs.
% Water by Weight Required for pumping (approx.)	5%
Bulk Density After Drying	195 lbs./cu.ft.

Modulus of Rupture

After Drying to 230°F	1800 – 2400 psi
At 1500°F	3000 – 4000 psi
At 2550°F	1200 – 1800 psi

Cold Crushing Strength

After Firing to 1500°F	8000 – 14000 psi
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Permanent Linear Change

After Firing to 1500°F	0.0 to -0.4%
After Firing to 2550°F	+0.2 to +0.8%

CHEMICAL ANALYSIS

Silica	[SiO ₂]	17.9%
Alumina	[Al ₂ O ₃]	44.3%
Zirconium Oxide	[ZrO ₂]	30.5%
Silicon Carbide	[SiC]	4.9%
Iron Oxide	[Fe ₂ O ₃]	0.2%
Lime	[CaO]	2.1%
Titania	[TiO ₂]	0.1%

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

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MT. SAVAGE
SPECIALTY REFRACTORIES COMPANY • Pittsburgh, Pa. 15127 •