

PRODUCT

**ULTRA-TEK 70**  
LOW CEMENT, SELF FLOWING CASTABLE,  
PUMP MIX, SHOTCRETE

**REFRACTORIES**

**TECHNICAL DATA**

**PHYSICAL DATA**

Vibration Cast

Self-Leveling

Maximum Service Temperature	3200 °F	3200 °F
Water by Weight Required for Casting	5.0%	6.0%
Bulk Density After Drying at 250°F	163 pcf	160 pcf
Modulus of Rupture After Drying at 250°F	1,700 – 2,600 psi	1,300 – 1,800 psi
After Heating to 1500°F	4,500 – 6,500 psi	3,000 – 4,000 psi
At 2550°F	1,500 – 2,100 psi	500 – 900 psi
Cold Crushing Strength After Drying at 250°F	10,000 - 16,000 psi	8,000 - 13,000 psi
After Heating to 1500°F	15,000 - 23,000 psi	10,000 - 15,000 psi
C-704 Abrasion Resistance After Heating to 1500°F	4.0 cc	4.5 cc
Permanent Linear Change After Heating to 1500°F	0.0 to -0.2%	0.0 to -0.2%
After Heating to 2550°F	+0.5 to +1.2 %	+0.5 to +1.3 %

**CHEMICAL ANALYSIS**

Silica	[SiO <sub>2</sub> ]	28.3 %
Alumina	[Al <sub>2</sub> O <sub>3</sub> ]	67.1 %
Iron Oxide	[Fe <sub>2</sub> O <sub>3</sub> ]	0.9 %
Lime	[CaO]	1.9 %
Titania	[TiO <sub>2</sub> ]	1.5 %

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

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