

ULTRA-TEK 70 ULC

**COARSE ULTRA-LOW CEMENT, SELF FLOWING CASTABLE,
and PUMP MIX**

PHYSICAL DATA

Vibration Cast

Self-Leveling

Maximum Service Temperature	3100 °F	3100 °F
Water by Weight Required for Casting	5.0%	6.0%
Bulk Density		
After Drying at 250°F	166 pcf	163 pcf
Modulus of Rupture		
After Drying at 250°F	1,800 – 2,500 psi	900 – 1,400 psi
After Heating to 1500°F	4,500 – 6,500 psi	2,500 – 3,500 psi
At 2550°F	1,500 – 2,100 psi	1,000 – 1,500 psi
Cold Crushing Strength		
After Drying at 250°F	10,000 – 16,000 psi	8000 – 13,000 psi
After Heating to 1500°F	15,000 – 22,000 psi	10,000 – 15,000 psi
C-704 Abrasion Resistance		
After Heating to 1500°F	3.6 cc	5.0 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 +1.4%	+0.5 to +1.4%

CHEMICAL ANALYSIS

Silica	[SiO ₂]	27.8%
Alumina	[Al ₂ O ₃]	68.3%
Iron Oxide	[Fe ₂ O ₃]	0.9%
Lime	[CaO]	0.9%
Titania	[TiO ₂]	1.9%

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

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