

ULTRA-TEK 70 UL
ULTRA-LOW CEMENT, SELF FLOWING CASTABLE,
PUMP MIX and SHOTCRETE 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	164 pcf	162 pcf
Modulus of Rupture After Drying at 250°F	2,000 – 3,200 psi	1,200 – 1,800 psi
After Heating to 1500°F	4,500 – 6,500 psi	2,800 – 4,000 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	8,000 – 13,000 psi
After Heating to 1500°F	14,000 – 20,000 psi	10,000 – 15,000 psi
C-704 Abrasion Resistance After Heating to 1500°F	3.6 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 +1.4 %	+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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