

ULTRA-TEK 85 ULC
ULTRA-LOW CEMENT, THERMAL SHOCK RESISTANT
COARSE CASTABLE, PUMP MIX

PHYSICAL DATA

	Vibration Cast	Self-Leveling
Maximum Service Temperature	3250 °F	3250 °F
Water by Weight Required for Casting	4.0%	5.0%
Bulk Density		
After Drying at 250°F	183 pcf	177 pcf
Modulus of Rupture		
After Drying at 250°F	1,500 – 2,100 psi	1,000 – 1,500 psi
After Heating to 1500°F	3,000 – 5,000 psi	2,800 – 4,000 psi
At 2550°F	700 – 1,100 psi	500 – 900 psi
Cold Crushing Strength		
After Drying at 250°F	7,000 – 11,000 psi	5,000 – 10,000 psi
After Heating to 1500°F	14,000 – 18,000 psi	10,000 – 15,000 psi
C-704 Abrasion Resistance		
After Heating to 1500°F	4.5 cc	5.5 cc
Permanent Linear Change		
After Heating to 1500°F	0.0 to -0.4%	0.0 to -0.4%
After Heating to 2550°F	+0.8 to +1.5%	+0.5 to +1.3%
After Heating to 2910°F	+0.0 to +0.6%	+0.0 to +0.6%

CHEMICAL ANALYSIS

Silica	[SiO ₂]	11.9 %
Alumina	[Al ₂ O ₃]	83.5 %
Iron Oxide	[Fe ₂ O ₃]	1.0 %
Lime	[CaO]	0.9 %
Titania	[TiO ₂]	2.6 %

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

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