

PRODUCT**ULTRA-TEK 87 UL
HIGH ALUMINA
ULTRA-LOW CEMENT CASTABLE****REFRACTORIES****TECHNICAL DATA****PHYSICAL DATA**

	Vibration Cast	Self-Leveling
Maximum Service Temperature	3200°F	3200°F
Water by Weight Required for Casting	4.8%	5.3%
Bulk Density		
After Drying at 250°F	190 pcf	184 pcf
Modulus of Rupture		
After Drying at 250°F	1,300 – 1,900 psi	800 – 1,400 psi
After Heating to 1500°F	2,900 – 3,900 psi	2,500 – 3,500 psi
At 2550°F	600 – 1,000 psi	500 – 900 psi
Cold Crushing Strength		
After Drying at 250°F	4,000 – 7,000 psi	3,800 – 5,800 psi
After Heating to 1500°F	7,000 – 13,000 psi	6,000 – 12,000 psi
After Heating to 2600°F	12,000 – 20,000 psi	n/a
C-704 Abrasion Resistance		
After Heating to 1500°F	4 – 7 cc	5 – 8 cc
Permanent Linear Change		
After Heating to 1500°F	0.0 to -0.3 %	0.0 to -0.3 %
After Heating to 2600°F	-0.5 to +0.5 %	-0.5 to +0.5 %
After Heating to 2730°F	+0.2 to +0.8 %	+0.2 to +0.8 %

CHEMICAL ANALYSIS

Silica	[SiO ₂]	8.5 %
Alumina	[Al ₂ O ₃]	87.7 %
Iron Oxide	[Fe ₂ O ₃]	0.8 %
Lime	[CaO]	1.0 %
Titania	[TiO ₂]	1.8 %

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

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