

**PRODUCT**

**ULTRA-TEK 45 C**  
**LOW CEMENT, SELF FLOWING CASTABLE,**  
**PUMP MIX**

**REFRACTORIES****TECHNICAL DATA****PHYSICAL DATA**

	Vibration Cast	Self-Leveling
Maximum Service Temperature	2800°F	2800°F
Water by Weight Required for Casting	5.5%	6.5%
Bulk Density After Drying at 250°F	155 pcf	150 pcf
Modulus of Rupture After Drying at 250°F	1,200 – 2,000 psi	1,100 – 1,800 psi
HMOR at 1500°F	3,200 – 4,200 psi	2,800 – 3,800 psi
HMOR at 2550°F	300 – 800 psi	200 – 700 psi
Cold Crushing Strength After Heating to 1500°F	7,000 - 10,000 psi	6,000 - 10,000 psi
C-704 Abrasion Resistance After Heating to 1500°F	8 cc	10 cc
Permanent Linear Change After Heating to 1500°F	0.0 to -0.4%	0.0 to -0.4%
After Heating to 2550°F	+0.2 to +1.0 %	+0.2 to +1.0 %

**CHEMICAL ANALYSIS**

Silica	[SiO <sub>2</sub> ]	47.6%
Alumina	[Al <sub>2</sub> O <sub>3</sub> ]	47.5%
Iron Oxide	[Fe <sub>2</sub> O <sub>3</sub> ]	0.9%
Lime	[CaO]	1.5%
Titania	[TiO <sub>2</sub> ]	1.5%
Other		1.0%

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

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