

ULTRA-TEK 50 ALK SC
ALKALI RESISTANT, LOW CEMENT, SELF FLOWING
CASTABLE, PUMP MIX, SHOTCRETE

PHYSICAL DATA	Vibration Cast	Shotcrete
Maximum Service Temperature	2900°F	2900°F
Water by Weight Required for Casting	5.3%	6.3%
Bulk Density After Drying at 250°F	155 pcf	151 pcf
Modulus of Rupture After Drying at 250°F	1,700 – 2,300 psi	1,200 – 1,800 psi
After Heating to 1500°F	4,000 – 6,000 psi	3,000 – 4,000 psi
At 2550°F	900 – 1,400 psi	500 – 900 psi
Cold Crushing Strength After Drying at 250°F	9,000 – 13,000 psi	8,000 – 12,000 psi
After Heating to 1500°F	11,000 – 17,000 psi	9,000 – 14,000 psi
C-704 Abrasion Resistance After Heating to 1500°F	5.0 cc	5.5 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 +1.2%	+0.5 to +1.2%

CHEMICAL ANALYSIS

Silica	[SiO ₂]	46.8%
Alumina	[Al ₂ O ₃]	49.0%
Iron Oxide	[Fe ₂ O ₃]	0.8%
Lime	[CaO]	1.5%
Titania	[TiO ₂]	1.4%
Alkali's and Trace Minerals		0.5%

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

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