

PRODUCT**ULTRA-TEK 45**
LOW CEMENT, SELF FLOWING CASTABLE,
PUMP MIX, SHOTCRETE**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	153 pcf	148 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	6.5 cc	9.0 cc
Permanent Linear Change		
After Heating to 1500°F	0.0 to -0.4%	0.0 to -0.4%
After Heating to 2550°F	+1.0 to +1.4 %	+1.0 to +1.4 %
After Heating to 2700°F	+0.8 to +1.2 %	+0.8 to +1.2 %

CHEMICAL ANALYSIS

Silica	[SiO ₂]	47.6%
Alumina	[Al ₂ O ₃]	47.5 %
Iron Oxide	[Fe ₂ O ₃]	0.9 %
Lime	[CaO]	1.5%
Titania	[TiO ₂]	1.5 %

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

1170

**MT. SAVAGE**
SPECIALTY REFRACTORIES COMPANY • Pittsburgh, Pa. 15127 •