

PRODUCT

**ULTRA-TEK 45 VCC**  
**LOW CEMENT VIBRATION CASTABLE**  
**COARSE AGGREGATE**

**REFRACTORIES**

**TECHNICAL DATA**

PHYSICAL PROPERTIES

Maximum Service Temperature	2800°F
Lbs. Required Dry Mix per Cu. Ft.	150 lbs.
% Water by Weight Required (approximate)	6.0%
Bulk Density After Drying	154 lbs./cu.ft.

Modulus of Rupture

After Drying	1300 – 1800 psi
At 1500°F	2800 – 3500 psi
At 2550°F	400 – 800 psi
At 2700°F	300 – 500 psi

Cold Crushing Strength

Dried 230°F	4,000 – 8,000 psi
After 1500°F	6,000 – 11,000 psi

Permanent Linear Change

After 1500°F	0.0 to -0.3%
After 2550°F	+1.0 to +2.0%

CHEMICAL ANALYSIS

Silica	[SiO <sub>2</sub> ]	47.5%
Alumina	[Al <sub>2</sub> O <sub>3</sub> ]	46.6%
Titania	[TiO <sub>2</sub> ]	1.6%
Iron Oxide	[Fe <sub>2</sub> O <sub>3</sub> ]	.8%
Lime	[CaO]	1.9%
Other		1.6%

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

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