

PRODUCT

**ULTRA-TEK 75C VC**  
**LOW CEMENT, VIBRATION CASTABLE**

**REFRACTORIES**

**TECHNICAL DATA**

PHYSICAL PROPERTIES

|  |                 |
|--|-----------------|
| Maximum Service Temperature                      | 3150°F          |
| Lbs. Required Dry Mix per Cu. Ft.                | 169 lbs         |
| % Water by Weight Required for Casting (approx.) | 5.5%            |
| Bulk Density After Drying                        | 172 lbs./cu.ft. |

Modulus of Rupture

|              |                 |
|--------------|-----------------|
| After Drying | 1600 – 2200 psi |
| At 1500°F    | 3500 – 5000 psi |
| At 2550°F    | 600 – 900 psi   |

Cold Crushing Strength

|              |                  |
|--------------|------------------|
| After 1500°F | 8500 – 13000 psi |
|--------------|------------------|

Permanent Linear Change

|              |              |
|--------------|--------------|
| After 1500°F | 0.0 to -0.2% |
| After 2550°F | 0.5 to +1.0% |

CHEMICAL ANALYSIS

|                          |                                   |       |
|--------------------------|-----------------------------------|-------|
| Silica                   | [SiO <sub>2</sub> ]               | 19.8% |
| Alumina                  | [Al <sub>2</sub> O <sub>3</sub> ] | 75.4% |
| Iron Oxide               | [Fe <sub>2</sub> O <sub>3</sub> ] | 1.2%  |
| Lime                     | [CaO]                             | 1.0%  |
| Titania                  | [TiO <sub>2</sub> ]               | 1.9%  |
| Trace Minerals & Alkalis |                                   | 0.7%  |

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

0160



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