

**PRODUCT**

**ULTRA-TEK 80 UL**

**ULTRA-LOW CEMENT, THERMAL SHOCK RESISTANT  
PUMP MIX**

**REFRACTORIES**

**TECHNICAL DATA**

**PHYSICAL DATA**

Vibration Cast

Self-Leveling

Maximum Service Temperature

3200 °F

3200 °F

Water by Weight Required

4.3 %

5.8 %

Bulk Density

After Drying at 250°F

175 pcf

170 pcf

Modulus of Rupture

After Drying at 250°F

1,500 – 2,100 psi

1,100 – 1,700 psi

After Heating to 1500°F

3,500 – 5,000 psi

2,800 – 4,000 psi

At 2550°F

700 – 1,100 psi

500 – 1,000 psi

Cold Crushing Strength

After Drying at 250°F

8,000 – 14,000 psi

6,000 – 12,000 psi

After Heating to 1500°F

14,000 – 18,000 psi

10,000 – 15,000 psi

C-704 Abrasion Resistance

After Heating to 1500°F

4.5 cc

5.5 cc

Permanent Linear Change

After Heating to 1500°F

0.0 to -0.4%

0.0 to -0.4%

After Heating to 2550°F

+0.7 to +1.3 %

+0.7 to +1.3 %

After Heating to 2910°F

+0.0 to +0.6 %

+0.0 to +0.6 %

**CHEMICAL ANALYSIS**

Silica [SiO<sub>2</sub>] 17.5%

Alumina [Al<sub>2</sub>O<sub>3</sub>] 77.5 %

Iron Oxide [Fe<sub>2</sub>O<sub>3</sub>] 1.2 %

Lime [CaO] 1.0 %

Titania [TiO<sub>2</sub>] 2.0 %

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

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**MT. SAVAGE**

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