



# PRODUCT DATA

**Brand Name:** QUIKTURN FS-PC

**Description:** Fused Silica-Based, Ultra-Low Cement Castable that can be vibration cast and pumpcast. This product features excellent thermal shock resistance at temperatures below 2000°F. After final set, this unique castable can be heated without the traditional controlled heating schedule.

**Maximum Service Temperatures** ..... **Cyclic Conditions :** 2000°F (1093°C)  
**Constant Temperature :** 3000°F (1650°C)

**Typical Water Required for Mixing :**

Vibration Cast ..... 5.4%  
Pump Cast ..... 5.8 %

(Pump Cast Samples)

**Bulk Density (lb/ft<sup>3</sup>)**

After 220°F (105°C) : 134 (2144 kg/m<sup>3</sup>)  
After 1500°F (815°C) : 128 (2048 kg/m<sup>3</sup>)

**Cold Crushing Strength (lb/in<sup>2</sup>)**

After 1500°F (815°C) : 8000 (560 kg/cm<sup>2</sup>)

**Modulus of Rupture (lb/in<sup>2</sup>)**

After 1500°F (815°C) : 1150 (81 kg/cm<sup>2</sup>)

**Permanent Linear Change (%)**

After 1500°F (815 °C) : 0.0 to -0.3

**Erosion Loss using ASTM C-704 Method**

After 1500°F Reheat : Less than 14 cc

**ASTM C-1171 Thermal Shock Test :**

2% Strength Loss

**Typical Chemical Analysis (%)**

Al<sub>2</sub>O<sub>3</sub> ..... 23.6 %  
SiO<sub>2</sub> ..... 74.5  
Fe<sub>2</sub>O<sub>3</sub> ..... 0.2  
TiO<sub>2</sub> ..... 0.3  
CaO ..... 0.9  
Alkalies ..... 0.1  
Others ..... 0.4

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice.

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