



# PRODUCT DATA

**Brand Name:**

## EZ CUBED® FS-6PC

**Description:** EZ CUBED® FS-6PC is a Low Cement, Fused Silica-based castable that is designed to be installed by pump casting and vibration casting methods. This castables features excellent resistance to thermal cycling and low thermal expansion.

Physical properties shown are average values of samples taken under controlled conditions  
ASTM test methods used where applicable

**Maximum Service Temperature: 2000°F (1095°C) for Thermal Cycling Service**

**Typical Water Required for Mixing (by weight) :**

Pump Casting..... 6.0%

**Bulk Density (pcf)**

After 220°F (105°C)  
After 1500°F (815°C)

Pump Cast Data

129	(2.06 g/cm <sup>3</sup> )
128	(2.05 g/cm <sup>3</sup> )

**Cold Crushing Strength (psi)**

After 1500°F (815°C)

11,000 (840 kg/cm<sup>2</sup>)

**Hot Modulus of Rupture (psi)**

After 2500°F (1371°C)  
After 2700°F (1482°C)

1,000 - 1,200 (70 - 84 kg/cm<sup>2</sup>)  
400 - 600 (28 - 42 kg/cm<sup>2</sup>)

**Permanent Linear Change (%)**

After 1500°F (815°C)

0.0 to -0.3

**Abrasion Loss (using ASTM C-704 Method)**

After 1500°F (815°C)

7 - 10 cc (Typical)

**Thermal Conductivity (K Factor)**

Mean Temperature  
500°F (260°C)  
1000°F (540°C)  
1500°F (815°C)

<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>
5.6	0.81
6.4	0.92
6.9	0.99

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	22.3
Silica (SiO <sub>2</sub> ) .....	75.3
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.2
Titania (TiO <sub>2</sub> ) .....	0.2
Lime (CaO) .....	1.8
Magnesia (MgO) .....	0.1
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.1

**Standard Packaging:** 55 lb bag. 72 bags per pallet. Bulk packaging available.

Brand Code: 0429

The properties shown on this data sheet represent typical average results 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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