



# PRODUCT DATA

**Brand Name:** SUREFLOW FS-6LC

**Description:** SUREFLOW FS-6LC is a low cement, self-leveling, fused silica castable that offers high strength, excellent resistance to abrasion, and low reversible thermal expansion. This product may be cast or pumpcast no vibration is needed during installation.

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)**

**Typical Water Required for Mixing (by weight) :**  
Self Leveling ..... 6.6%

<u>Bulk Density (pcf)</u>	<u>Self Leveling Data</u>	
After 220°F (105°C)	140	(2.24 g/cm <sup>3</sup> )
After 1500°F (815°C)	136	(2.18 g/cm <sup>3</sup> )
<u>Cold Crushing Strength (psi)</u>		
After 1500°F (815°C)	9500	(665 kg/cm <sup>2</sup> )
After 2000°F (1095°C)	8500	(595 kg/cm <sup>2</sup> )
<u>Modulus of Rupture (psi)</u>		
After 1500°F (815°C)	1500	(105 kg/cm <sup>2</sup> )
After 2000°F (1095°C)	1500	(105 kg/cm <sup>2</sup> )
<u>Thermal Conductivity (K Factor)</u>		
Mean Temperature	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>
1000°F (540°C)	6.4	0.92
1500°F (815°C)	6.9	0.99
<u>Permanent Linear Change (%)</u>		
After 1500°F (815°C)	-0.2 to 0.0	
After 2000°F (1095°C)	-0.6 to -0.4	
<u>Abrasion Loss (using ASTM C-704 Method)</u>		
After 1500°F (815°C)	15 cc (max)	

**Typical Chemical Analysis (%)**  
(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	28.5
Silica (SiO <sub>2</sub> ) .....	69.3
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.1
Titania (TiO <sub>2</sub> ) .....	0.1
Lime (CaO) .....	1.8
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.2

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

Brand Code: 0375

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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