



# PRODUCT DATA

**Brand Name:** **QUIKTURN 56 SCPC**

**Description:** QUIKTURN 56 SCPC is a silicon carbide-based, ultra-low cement castable that can be vibration cast, pumped, or shotcreted. QUIKTURN 56 SCPC has very good resistance to alkali and abrasion along with high thermal conductivity. After the initial set, this unique castable can be heated without using the traditional ramp-and-hold heatup schedule. Refer to the recommended QUIKTURN heatup schedule for initial heatup.

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

**Maximum Service Temperature: 2900°F (1590°C)**

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

Vibration Cast ..... 6.7%  
Pump Cast ..... 7.0 - 7.5%

<u>Bulk Density (pcf)</u>	<u>Vibration Cast Data</u>	
After 220°F (105°C)	158	(2.53 g/cm <sup>3</sup> )
After 1500°F (815°C)	156	(2.50 g/cm <sup>3</sup> )

<u>Cold Crushing Strength (psi)</u>		
After 1500°F (815°C)	11000	(770 kg/cm <sup>2</sup> )

<u>Thermal Conductivity (K Factor)</u>	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>
500°F (260°C)	42	6.05
1000°F (538°C)	38	5.48
1500°F (815°C)	38	5.48

<u>Permanent Linear Change (%)</u>	
After 1500°F (815°C)	-0.3 to 0.0

<u>Abrasion Loss (using ASTM C-704 Method)</u>	
After 1500°F (815°C)	12 cc

<u>Typical Chemical Analysis (%)</u>	
(Calcined Basis)	
Silicon Carbide (SiC) .....	53.4
Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	32.4
Silica (SiO <sub>2</sub> ) .....	11.9
Lime (CaO) .....	1.0
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.4
Titania (TiO <sub>2</sub> ) .....	0.7
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: 0761

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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