



# PRODUCT DATA

**Brand Name:** **VIBROCAST 56SC**

**Description:** VIBROCAST 56SC is a SiC castable that uses low cement binder technology. Its low porosity, excellent abrasion resistance and high heat transfer value make this product an excellent choice for the combustion zones of POWER GENERATION units and for the riser lines and preheater sections of CEMENT PLANTS. The high heat transfer characteristic of the SiC reduces surface slagging and alkali build-up, thereby, improving the operating efficiency of your unit. Vibrocast 56SC is best applied by vibration casting.

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

**Maximum Service Temperature: 2700°F (1482°C)**

	Vibration Cast Data	
<b><u>Bulk Density (pcf)</u></b>		
After 220°F (105°C)	163	(2.61 g/cm <sup>3</sup> )
After 1500°F (815°C)	160	(2.56 g/cm <sup>3</sup> )
<b><u>Cold Crushing Strength (psi)</u></b>		
After 1500°F (815°C)	12500	(875 kg/cm <sup>2</sup> )
After 1700°F (927°C)	12500	(875 kg/cm <sup>2</sup> )
<b><u>Modulus of Rupture (psi)</u></b>		
After 1500°F (815°C)	3000	(210 kg/cm <sup>2</sup> )
After 1700°F (927°C)	2800	(196 kg/cm <sup>2</sup> )
<b><u>Permanent Linear Change (%)</u></b>		
After 1500°F (815°C)	-0.4 to -0.1	
After 1700°F (927°C)	-0.4 to -0.1	
<b><u>Thermal Conductivity (K Factor)</u></b>		
Mean Temperature	BTU/ft <sup>2</sup> /hr./°F/inch	W/mK
1500°F (815°C)	38	5.48
1700°F (927°C)	40	5.77
2000°F (1095°C)	44	6.34
<b><u>Abrasion Loss (using ASTM C-704 Method)</u></b>		
After 1700°F (927°C)	6 cc	
<b><u>Apparent Porosity</u></b>		
	17.0%	
<b><u>Typical Chemical Analysis (%)</u></b>		
(Calcined Basis)		
Silicon Carbide (SiC) .....	56.2	
Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	19.8	
Silica (SiO <sub>2</sub> ) .....	21.5	
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.3	
Titania (TiO <sub>2</sub> ) .....	0.3	
Lime (CaO) .....	1.7	
Other .....	0.2	

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

Brand Code: 0389

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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