



PRODUCT DATA

Brand Name:

VIBROCAST 80SC

Description: VIBROCAST 80SC is an 80% 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 tube walls in the combustion zones of power generating units. The high heat transfer characteristic of the SiC reduces surface slagging and alkali build-up, thereby, improving the operating efficiency of your unit. VIBROCAST 80SC is best installed by vibration casting.

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

Maximum Service Temperature: 2800°F (1540°C)

	Vibration Cast Data	
<u>Bulk Density (pcf)</u>		
After 220°F (105°C)	163	(2.61 g/cm ³)
After 1500°F (815°C)	157	(2.56 g/cm ³)
<u>Cold Crushing Strength (psi)</u>		
After 1700°F (927°C)	12500	(875 kg/cm ²)
<u>Modulus of Rupture (psi)</u>		
After 1700°F (927°C)	2800	(196 kg/cm ²)
<u>Permanent Linear Change (%)</u>		
After 1700°F (927°C)	-0.4 to -0.1	
<u>Thermal Conductivity (K Factor)</u>		
Mean Temperature	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>
1000°F (540°C)	75	10.82
1500°F (815°C)	82	11.82
<u>Abrasion Loss (using ASTM C-704 Method)</u>		
After 1700°F (927°C)	7 cc	
<u>Typical Chemical Analysis (%)</u>		
(Calcined Basis)		
Silicon Carbide (SiC)	79.8	
Alumina (Al ₂ O ₃)	8.7	
Silica (SiO ₂)	9.2	
Iron Oxide (Fe ₂ O ₃)	0.2	
Titania (TiO ₂)	Trace	
Lime (CaO)	2.0	
Other	0.1	

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

Brand Code: 0456

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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