



# Vibratables

## Product Data

### VIBROCAST 80SC

**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 applied by vibrate casting.

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

**Bulk Density:**  
 220°F (105°C) 160-165 lb/ft<sup>3</sup> (2560-2640 kg/m<sup>3</sup>)  
 1700°F (927°C) 155-160 lb/ft<sup>3</sup> (2480-2560 kg/m<sup>3</sup>)

**Cold Crushing Strength:**  
 1700°F (927°C) 10000-15000 psi (700-1050 kg/cm<sup>2</sup>)

**Modulus of Rupture:**  
 1700°F (927°C) 2300-3300 psi (161-231 kg/cm<sup>2</sup>)

**Permanent Linear Change(%):**  
 1700°F (927°C) -0.1 to -0.4

**Erosion Loss:**  
 1700°F (927°C) Less than 10 cc  
 (Typical 5 cc to 9 cc)

<b>Conductivity or "K" Factor:</b>		
Mean Temp.	BTU/ft <sup>2</sup> /HR/°F/in	W/mK
1000°F (540°C)	75	10.82
1500°F (815°C)	82	11.82

<b>Typical Chemical Analysis(%):</b>						
SiC	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	TiO <sub>2</sub>	Other
79.8	8.7	9.2	0.2	2.0	TR	0.1

**Standard Packaging:** 72-55 lb. bags per pallet

The properties shown on this data sheet represent typical average results generated 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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