



# Vibratables

## Product Data

### VIBROCAST 80SCHP

**VIBROCAST 80SCHP** is an 80% SiC refractory material 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 80SCHP** is best applied by hand packing.

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

**Bulk Density:**  
1500°F (815°C) 154 lb/ft<sup>3</sup> (2464 kg/m<sup>3</sup>)

**Cold Crushing Strength:**  
1500°F ( 815°C) 10,000-18,000 psi (700-1260 kg/cm<sup>2</sup>)

**Modulus of Rupture:**  
1500°F ( 815°C) 2300- 3300 psi (161- 231 kg/cm<sup>2</sup>)

**Permanent Linear Change(%):**  
1500°F ( 815°C) -0.1 to -0.3

**Erosion Loss:**  
1500°F (815°C) Less than 8 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 | MgO | Alkalies |
| 79.2                                 | 11.3                           | 7.5              | 0.1                            | 1.7 | 0.1 | 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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