

# Vibratables

## Product Data

### VIBROCAST 80SC

**VIBROCAST 80SC** is a 80% Silicon Carbide, low cement castable designed for Vibrocasting. **VIBROCAST 80SC** has excellent strength, alkali and abrasion resistance.

**Maximum Service Temperature:** 1480°C (2700°F)

**Bulk Density:**

|                         |                               |                                  |
|-------------------------|-------------------------------|----------------------------------|
| Dried to 110°C (220°F)  | 2500 - 2595 kg/m <sup>3</sup> | (156 – 162 lbs/ft <sup>3</sup> ) |
| Fired to 815°C (1500°F) | 2470 - 2560 kg/m <sup>3</sup> | (154 – 160 lbs/ft <sup>3</sup> ) |

**Cold Crushing Strength:**

|                         |                              |                     |
|-------------------------|------------------------------|---------------------|
| Dried to 110°C (220°F)  | 552 - 827 kg/cm <sup>2</sup> | ( 8000 – 12000 psi) |
| Fired to 815°C (1500°F) | 630 - 910 kg/cm <sup>2</sup> | ( 9000 – 13000 psi) |

**Modulus of Rupture:**

|                         |                              |                   |
|-------------------------|------------------------------|-------------------|
| Dried to 110°C (220°F)  | 110 - 165 kg/cm <sup>2</sup> | (1600 – 2400 psi) |
| Fired to 815°C (1500°F) | 152 - 207 kg/cm <sup>2</sup> | (2200 – 3000 psi) |

**Erosion Loss:**

|                         |   |
|-------------------------|---|
| Fired to 815°C (1500°F) | Less than 8 cc<br>(Typical loss 4 - 6 cc) |
|-------------------------|---|

**Permanent Linear Change(%):**

|                         |                |
|-------------------------|----------------|
| 110°C to 815°C (1500°F) | -0.1 to -0.3 % |
|-------------------------|----------------|

**Conductivity or “K” Factor:**

| Mean Temp.     | W/mK | BTU/ft <sup>2</sup> /HR/°F/in |
|----------------|------|-------------------------------|
| 540°C (1000°F) | 9.6  | 66.6                          |
| 815°C (1500°F) | 10.5 | 72.9                          |

**Typical Chemical Analysis(%):**

| Al <sub>2</sub> O <sub>3</sub> | SiO <sub>2</sub> | Fe <sub>2</sub> O <sub>3</sub> | SiC  | CaO | Alkalies |
|--------------------------------|------------------|--------------------------------|------|-----|----------|
| 9.56                           | 9.03             | 0.11                           | 79.0 | 1.4 | 0.11     |

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