

# Vibratables

## Product Data

### VIBROCAST 80SC RSP

**VIBROCAST 80SC RSP** is a 80% Silicon Carbide, ultra-low cement castable designed for pumpcasting. This product can be pumped using rotor-stator pumps, allowing low volume Shotcrete installations to be carried out using equipment which is readily available and of relatively low cost. **VIBROCAST 80SC RSP** 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)	758 - 1035 kg/cm <sup>2</sup>	(11000 – 15000 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 6 cc (Typical loss 3 - 5 cc)
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#### Permanent Linear Change(%):

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