

Vibratables

Product Data

VIBROCAST 80SC PC

VIBROCAST 80SC PC is a 80% Silicon Carbide, low cement castable designed for pumpcasting. **VIBROCAST 80SC PC** 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 ³	(156 – 162 lbs/ft ³)
Fired to 815°C (1500°F)	2470 - 2560 kg/m ³	(154 – 160 lbs/ft ³)

Cold Crushing Strength:

Dried to 110°C (220°F)	552 - 827 kg/cm ²	(8000 – 12000 psi)
Fired to 815°C (1500°F)	758 - 1035 kg/cm ²	(11000 – 15000 psi)

Modulus of Rupture:

Dried to 110°C (220°F)	110 - 165 kg/cm ²	(1600 – 2400 psi)
Fired to 815°C (1500°F)	152 - 207 kg/cm ²	(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 ² /HR/°F/in
540°C (1000°F)	9.6	66.6
815°C (1500°F)	10.5	72.9

Typical Chemical Analysis(%):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	SiC	CaO	Alkalies
9.56	9.03	0.11	79.0	1.4	0.11

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled conditions 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. RESCO PRODUCTS disclaims any expressed or implied warranties based on this sheet. 01/08/13 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet