

Vibratables

Product Data

VIBROCAST 80PC

VIBROCAST 80PC is a pumpable, low-cement, 80% alumina, vibratable castable designed to give minimum porosity and linear change with maximum density and super high fired strengths. This material will withstand the severe high temperature corrosion and erosion that are common in today's Steel Industry.

Maximum Service Temperature: 3200°F (1760°C)

Bulk Density:

220°F (105°C) 176 lb/ft³ (2816 kg/m³)
 1500°F (815°C) 170 lb/ft³ (2720 kg/m³)

Cold Crushing Strength:

1500°F (815°C) 9000-13000 psi (630- 910 kg/cm²)
 2500°F (1370°C) 10000-14000 psi (700- 980 kg/cm²)
 2910°F (1600°C) 12000-16000 psi (840-1120 kg/cm²)

Modulus of Rupture:

1500°F (815°C) 1300-1800 psi (91-126 kg/cm²)
 2500°F (1370°C) 2000-2400 psi (140-168 kg/cm²)
 2910°F (1600°C) 2100-2500 psi (147-175 kg/cm²)

Permanent Linear Change(%):

1500°F (815°C) -0.1 to -0.3
 2500°F (1370°C) +0.1 to +0.5
 2910°F (1600°C) +0.1 to +0.5

Erosion Loss:

1500°F (815°C) Less than 9 cc
 (Typical Loss: 5 - 7 cc)

Conductivity or "K" Factor:

Mean Temp.	BTU/ft ² /HR/°F/in	W/mK
1000°F (540°C)	12.0	1.73
1500°F (815°C)	11.0	1.59
2000°F (1095°C)	11.0	1.59

Typical Chemical Analysis(%):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	Alkalies
79.2	15.4	1.1	2.3	1.5	0.5

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