



Vibratables

Product Data

VIBROCAST 85

VIBROCAST 85 is a low-cement, 85% 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) 178 lb/ft³ (2848 kg/m³)
1500°F (815°C) 176 lb/ft³ (2816 kg/m³)

Cold Crushing Strength:

1500°F (815°C) 10000-15000 psi (700-1050 kg/cm²)
2500°F (1370°C) 13000-17000 psi (910-1190 kg/cm²)
2910°F (1600°C) 8000-12000 psi (560- 840 kg/cm²)

Modulus of Rupture:

1500°F (815°C) 1300-1800 psi (91-126 kg/cm²)
2500°F (1370°C) 3000-3600 psi (210-252 kg/cm²)
2910°F (1600°C) 2600-3200 psi (182-224 kg/cm²)

Permanent Linear Change(%):

2500°F (1370°C) -0.1 to +0.2
2910°F (1600°C) +0.3 to +1.0

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	Other
83.0	11.3	1.5	2.4	1.6	0.2

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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