

Vibratables

Product Data

VIBROCAST 55PC

VIBROCAST 55PC is a pumpable 1700°C, low-cement Mullite/Andalusite castable designed to provide minimum porosity and low linear change with maximum density and high fired strengths. This material will withstand severe high temperature corrosive and erosive environments.

Maximum Service Temperature: 3100°F (1700°C)

Bulk Density:

220°F (105°C) 155 lb/ft³ (2485 kg/m³)
 1500°F (815°C) 152 lb/ft³ (2435 kg/m³)

Porosity:

1500°F (815°C) 17%

Cold Crushing Strength:

1500°F (815°C) 10000-14000 psi (700- 980 kg/cm²)
 2500°F (1370°C) 11000-15000 psi (770-1050 kg/cm²)
 2910°F (1600°C) 11000-15000 psi (770-1050 kg/cm²)

Modulus of Rupture:

1500°F (815°C) 1400-2000 psi (98-140 kg/cm²)
 2500°F (1370°C) 1500-2100 psi (105-147 kg/cm²)
 2910°F (1600°C) 1500-2100 psi (105-147 kg/cm²)

Permanent Linear Change(%):

1500°F (815°C) -0.1 to -0.3
 2500°F (1370°C) 0.0 to -0.3
 2910°F (1600°C) +0.4 to +0.8

Erosion Loss:

1500°F (815°C) Less than 8.0 cc
 (Typical Loss:5 - 7 cc)

Conductivity or “K” Factor:

Mean Temp.	BTU/ft ² /HR/°F/in	W/mK
1000°F (540°C)	11.0	1.58
1500°F (815°C)	11.0	1.58
2000°F (1095°C)	11.0	1.58

Typical Chemical Analysis(%):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	Alk
55.5	39.4	0.8	1.6	1.5	0.3

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