

Vibratables

Product Data

VIBROCAST 70PC

VIBROCAST 70PC is a pumpable, low-cement castable which is designed to give minimum porosity and linear change with maximum density and super high fired strengths. It can be Vibration cast or Pump cast.

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

Bulk Density:
 220°F (105°C) 167 lb/ft³ (2672 kg/m³)
 1500°F (815°C) 160 lb/ft³ (2560 kg/m³)

Porosity: 17%

Cold Crushing Strength:
 1500°F (815°C) 10000-14000 psi (700-980 kg/cm²)
 2500°F (1370°C) 10000-14000 psi (700-980 kg/cm²)
 2910°F (1600°C) 8000-12000 psi (560-840 kg/cm²)

Modulus of Rupture:
 1500°F (815°C) 1300-1700 psi (91-119 kg/cm²)
 2500°F (1370°C) 1600-2000 psi (112-140 kg/cm²)
 2910°F (1600°C) 1600-2000 psi (112-140 kg/cm²)

Permanent Linear Change(%):
 1500°F (815°C) -0.1 to -0.3
 2500°F (1370°C) +0.3 to +0.7
 2910°F (1600°C) +1.3 to +1.7

Erosion Loss: Less than 8 cc
 1500°F (815°C) (Typical Loss: 4 - 8 cc)

Conductivity or "K" Factor:

Mean Temp.	BTU/ft ² /HR/°F/in	W/mK
1000°F (540°C)	11.0	1.59
1500°F (815°C)	10.0	1.44
2000°F (1095°C)	10.0	1.44

Typical Chemical Analysis(%):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	Alkalies
69.4	25.7	1.1	1.9	1.5	0.4

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