



# Vibratables

## Product Data

### VIBROCAST 3000

**VIBROCAST 3000** is a 3000°F low-cement vibratable castable which will give high fired strength at maximum density with minimum porosity and linear change. This material will withstand the severe high temperature corrosion and erosion that are common in today's Lime and Cement Industry.

**Maximum Service Temperature:** 3000°F (1650°C)

**Bulk Density:**

220°F (105°C)	148 lb/ft <sup>3</sup> (2368 kg/m <sup>3</sup> )
1500°F (815°C)	143 lb/ft <sup>3</sup> (2288 kg/m <sup>3</sup> )

**Porosity:** 16%

**Cold Crushing Strength:**

1500°F ( 815°C)	9000-11000 psi ( 630- 770 kg/cm <sup>2</sup> )
2500°F (1370°C)	15000-18000 psi (1050-1260 kg/cm <sup>2</sup> )
2910°F (1600°C)	12000-15000 psi ( 840-1050 kg/cm <sup>2</sup> )

**Modulus of Rupture:**

1500°F ( 815°C)	1200-1700 psi ( 84-119 kg/cm <sup>2</sup> )
2500°F (1370°C)	2300-2700 psi (161-189 kg/cm <sup>2</sup> )
2910°F (1600°C)	2200-2600 psi (154-182 kg/cm <sup>2</sup> )

**Erosion Loss:**

1500°F (815°C) Less than 14 cc  
(Typical Loss: 9-11 cc)

**Permanent Linear Change(%):**

2500°F (1370°C)	+0.1 to +0.4
2910°F (1600°C)	+0.8 to +1.3

**Conductivity or "K" Factor:**

Mean Temp.	BTU/ft <sup>2</sup> /HR/°F/in	W/mK
1000°F ( 540°C)	9.0	1.30
1500°F ( 815°C)	10.0	1.44
2000°F (1095°C)	10.0	1.44

**Typical Chemical Analysis(%):**

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	Other
48.9	46.9	0.9	1.6	1.5	0.2

**Standard Packaging:** 72-55 lb. bags per pallet

Data shown are average results of standard ASTM tests unless otherwise noted. Results may vary subject to normal variations in manufacturing, testing and installation procedures in the field.