



PRODUCT DATA

Brand Name:

VIBROCAST 3000

Description: VIBROCAST 3000 is an economical, low cement, 45% Alumina castable that should be installed by vibration cast methods only.

Physical properties shown are average values of samples taken under controlled conditions

ASTM test methods used where applicable

Maximum Service Temperature: 3000°F (1649°C)

Typical Water Required for Mixing (by weight) :

Vibration Casting 5.5%

Vibration Cast Data

Bulk Density (pcf)

After 220°F (105°C)	145	(2.32 g/cm ³)
After 1500°F (815°C)	141	(2.26 g/cm ³)

Cold Crushing Strength (psi)

After 1500°F (815°C)	8700	(609 kg/cm ²)
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Permanent Linear Change (%)

After 1500°F (815°C)	0.0 to -0.2
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Thermal Conductivity (K Factor)

Mean Temperature	BTU/ft ² /hr./°F/inch	W/mK
1000°F (540°C)	11.3	1.63
1500°F (815°C)	13.0	1.87
2000°F (1095°C)	14.3	2.06

Apparent Porosity (%)

16.0

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	46.3
Silica (SiO ₂)	49.9
Iron Oxide (Fe ₂ O ₃)	0.7
Titania (TiO ₂)	1.4
Lime (CaO)	1.5
Magnesia (MgO)	0.1
Alkalies (Na ₂ O+K ₂ O)	0.2

Standard Packaging: 55 lb bag. 72 bags per pallet. Bulk packaging available.

Brand Code: 0383

The properties shown on this data sheet represent typical average results 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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