



PRODUCT DATA

Brand Name: VIBROCAST 50

Description: VIBROCAST 50 is a Low Cement, 45% Alumina castable that can 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%

Bulk Density (pcf)	Vibration Cast Data	
After 220°F (105°C)	147	(2.35 g/cm ³)
After 1500°F (815°C)	145	(2.32 g/cm ³)

Cold Crushing Strength (psi)		
After 1500°F (815°C)	14000	(980 kg/cm ²)

Permanent Linear Change (%)	
After 1500°F (815°C)	0.0 to -0.3

Thermal Conductivity (K Factor)	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>
Mean Temperature		
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 (%)	
(Calcined Basis)	
Alumina (Al ₂ O ₃)	45.9
Silica (SiO ₂)	49.5
Iron Oxide (Fe ₂ O ₃)	0.8
Titania (TiO ₂)	1.3
Lime (CaO)	2.1
Magnesia (MgO)	0.1
Alkalies (Na ₂ O+K ₂ O)	0.3

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

Brand Code: 0385

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.

RESCO PRODUCTS disclaims any express or implied warranties based on this sheet.

03/31/17 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet.