



# PRODUCT DATA

**Brand Name:** **VIBROCAST 50PC**

**Description:** VIBROCAST 50PC is a Pumpable, Low Cement, 45% Alumina castable that can be installed by vibration casting, pumping, and shotcreting methods. It offers excellent resistance to alkalis and requires substantially less vibration than standard low cement castables.

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%
Pump Casting .....	7.1%

Pump Cast Data

**Bulk Density (pcf)**

After 220°F (105°C)	144	(2.30 g/cm <sup>3</sup> )
After 1500°F (815°C)	141	(2.26 g/cm <sup>3</sup> )

**Cold Crushing Strength (psi)**

After 1500°F (815°C)	11,000	(630 kg/cm <sup>2</sup> )
----------------------	--------	---------------------------

**Permanent Linear Change (%)**

After 1500°F (815°C)	0.0 to -0.3
----------------------	-------------

**Thermal Conductivity (K Factor)**

Mean Temperature	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>
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 <sub>2</sub> O <sub>3</sub> ) .....	45.9
Silica (SiO <sub>2</sub> ) .....	49.5
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.8
Titania (TiO <sub>2</sub> ) .....	1.2
Lime (CaO) .....	2.1
Magnesia (MgO) .....	0.1
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.3

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

Brand Code: 0387

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.

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

08/29/17 is the date that this data sheet was updated. Check with your RESOCO sales representative or RESOCO website to determine you have the current sheet.