



PRODUCT DATA

Brand Name: **VIBROCAST 60-5SC PC**

Description: VIBROCAST 60-5 SiC PC is a 60% alumina, mullite based, low-cement castable designed to provide low linear change and high fired strengths. This material will withstand severe high temperature corrosive and erosive environments. It has a 5% SiC addition. This castable can be installed by vibration cast, pumpcasting, and shotcreting methods.

Physical properties shown are average values of samples taken under controlled conditions
ASTM test methods used where applicable

Maximum Service Temperature: 3100°F (1700°C)

Typical Water Required for Mixing (by weight) :

Pump Casting 6.5%

Pump Cast Data

Bulk Density (pcf)

After 220°F (105°C)	156	(2.50 g/cm ³)
After 1500°F (815°C)	153	(2.49 g/cm ³)

Cold Crushing Strength (psi)

After 1500°F (815°C)	9250	(648 kg/cm ²)
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Modulus of Rupture (psi)

After 1500°F (815°C)	1700	(119 kg/cm ²)
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Permanent Linear Change (%)

After 1500°F (815°C)	-0.3 to 0.0
After 2500°F (1370°C)	-0.4 to -0.1

Thermal Conductivity (K Factor)

Mean Temperature	BTU/ft ² /hr./°F/inch	W/mK
1500°F (815°C)	12	1.73
1700°F (927°C)	13	1.87
2000°F (1095°C)	14	2.02

Abrasion Loss (using ASTM C-704 Method)

After 1500°F (815°C)	12 cc (max)
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Typical Chemical Analysis (%)

(Calcined Basis)

Silicon Carbide (SiC)	5.0
Alumina (Al ₂ O ₃)	58.5
Silica (SiO ₂)	32.0
Iron Oxide (Fe ₂ O ₃)	0.9
Titania (TiO ₂)	1.8
Lime (CaO)	1.6
Other	0.1

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

Brand Code: 8593

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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