



Low Cement Castables

Cast Data

VIBROCAST 56SC

VIBROCAST 56SC is a SiC castable that uses **low cement** binder technology. Its low porosity, excellent abrasion resistance and high heat transfer value make this product an excellent choice for the combustion zones of **POWER GENERATION** units and for the riser lines and preheater sections of **CEMENT PLANTS**. The high heat transfer characteristic of the SiC reduces surface slagging and alkali build-up, thereby, improving the operating efficiency of your unit. **Vibrocast 56SC** is best applied by vibration casting.

Maximum Service Temperature: 2700°F (1482°C)

Bulk Density:

After 220oF (105°C)	160-165 lb/ft ³ (2560-2640 kg/m ³)
After 1500°F (815°C)	157-162 lb/ft ³ (2512-2592 kg/m ³)
After 1700°F (927°C)	155-160 lb/ft ³ (2480-2560 kg/m ³)

Porosity (%):

After 1700°F (927°C) 17.0%

Cold Crushing Strength:

After 1500°F (815°C)	10000-15000 psi (700-1050 kg/cm ²)
After 1700°F (927°C)	10000-15000 psi (700-1050 kg/cm ²)

Modulus of Rupture:

After 1500°F (815°C)	2500-3500 psi (175-245 kg/cm ²)
After 1700°F (927°C)	2300-3300 psi (161-231 kg/cm ²)

Permanent Linear Change (%):

After 1500°F (815°C)	-0.1 to -0.4
After 1700°F (927°C)	-0.1 to -0.4

Erosion Loss:

After 1500°F (815°C)	Less than 10 cc (Typical 4 cc to 6 cc)
After 1700°F (927°C)	(Typical 5 cc to 7 cc)

Thermal Conductivity or “K” Factor:

Mean Temp.	BTU/ft ² /HR/°F/in	W/mK
1500°F (815°C)	38	5.48
1700°F (927°C)	40	5.77
2000°F (1095°C)	44	6.34

Typical Chemical Analysis (%):

SiC	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	Other
56.2	19.8	21.5	0.3	0.3	1.7	0.2

Standard Packaging: 72-55 lb. bags per pallet, bulk packing available

The properties shown on this data sheet represent typical average results generated 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.

02/29/08 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