



PRODUCT DATA

Brand Name: **PROGUN® LC 56SCG**

Description: ProGun LC 56SCG is a SiC castable that uses low cement binder technology with the gunite installation method. Its low porosity, excellent abrasion resistance, non-wetting characteristics and high heat transfer of SiC make this product an excellent choice for riser lines and pre-heater sections in CEMENT PLANTS and in combustion zones in POWER GENERATION units exclusively. This tightly bonded SiC product greatly reduces (or eliminates) surface slagging and clinker/alkali build-up. ***A water booster pump is recommended for proper installation.***

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

Maximum Service Temperature: 2700°F (1480°C)

Porosity: 18% (typical)

Bulk Density (pcf)

	Gun Data	
After 220°F (104°C)	148 - 153	(2.37 - 2.45 g/cm ³)
After 1500°F (815°C)	145 - 150	(2.32 - 2.40 g/cm ³)
After 1700°F (927°C)	143 - 147	(2.29 - 2.35 g/cm ³)

Cold Crushing Strength (psi)

After 1500°F (815°C)	9000 - 13000	(630 - 910 kg/cm ²)
After 1700°F (927°C)	9000 - 13000	(630 - 910 kg/cm ²)

Modulus of Rupture (psi)

After 1500°F (815°C)	2000 - 3000	(140 - 210 kg/cm ²)
After 1700°F (927°C)	2000 - 3000	(140 - 210 kg/cm ²)

Thermal Conductivity (K Factor)

Mean Temperature	BTU/ft ² /hr./°F/inch	W/mK
1500°F (815°C)	38	5.48
1700°F (927°C)	40	5.77
2000°F (1095°C)	40	6.34

Permanent Linear Change (%)

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

Abrasion Loss (using ASTM C-704 Method)

After 1700°F (927°C)	Less than 10 cc
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Typical Chemical Analysis (%)

(Calcined Basis)

Silicon Carbide (SiC)	56.2
Alumina (Al ₂ O ₃)	18.3
Silica (SiO ₂)	22.4
Iron Oxide (Fe ₂ O ₃)	0.5
Titania (TiO ₂)	0.1
Lime (CaO)	2.3
Alkalies (Na ₂ O+K ₂ O)	0.2

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

Brand Code: 0390

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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