



# Low Cement Gun Mix

## Product Data

### ProGun LC 56SCG

**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. Data shown are average results of tests following the guidelines set forth in ASTM C-903 "Preparing Refractory Concrete Specimens by Cold Gunning."

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

**Bulk Density:**

220°F (105°C)	148-153 lb/ft <sup>3</sup> (2368-2448 kg/m <sup>3</sup> )
1500°F (815°C)	145-150 lb/ft <sup>3</sup> (2320-2400 kg/m <sup>3</sup> )
1700°F (927°C)	143-147 lb/ft <sup>3</sup> (2288-2352 kg/m <sup>3</sup> )

**Porosity:**

1700°F (927°C) 18.0%

**Cold Crushing Strength:**

1500°F (815°C)	9000-13000 psi (630-910 kg/cm <sup>2</sup> )
1700°F (927°C)	9000-13000 psi (630-910 kg/cm <sup>2</sup> )

**Modulus of Rupture:**

1500°F (815°C)	2000-3000 psi (140-210 kg/cm <sup>2</sup> )
1700°F (927°C)	2000-3000 psi (140-210 kg/cm <sup>2</sup> )

**Permanent Linear Change(%):**

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

**Erosion Loss:**

1700°F (927°C) Less than 10 cc  
(Typical 7 cc to 8 cc)

**Thermal Conductivity or "K" Factor:**

Mean Temp.	BTU/ft <sup>2</sup> /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 <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	Other
56.2	18.3	22.4	0.5	0.1	2.3	0.2

**Standard Packaging:** 72-55 lb. bags per pallet

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.

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