



# Low Cement Gun Mix

## Product Data

### ProGun LC 80SCG

**ProGun LC 80SCG** is an 80% SiC castable that uses **low cement** binder technology with the gunite installation method. Its low porosity, excellent abrasion resistance and high heat transfer value make this product an excellent choice for the tube walls in the combustion zones of power generating units. The high heat transfer characteristic of the SiC reduces surface slagging and alkali build-up, thereby, improving the operating efficiency of your unit. 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:** 2800°F (1540°C)

**Bulk Density:**

220°F (105°C)	147-152 lb/ft <sup>3</sup> (2352-2432 kg/m <sup>3</sup> )
1700°F (927°C)	143-148 lb/ft <sup>3</sup> (2288-2368 kg/m <sup>3</sup> )

**Cold Crushing Strength:**

1700°F (927°C)	8000-11000 psi (560-770 kg/cm <sup>2</sup> )
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**Modulus of Rupture:**

1700°F (927°C)	2000-3000 psi (140-210 kg/cm <sup>2</sup> )
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**Permanent Linear Change(%):**

1700°F (927°C)	-0.1 to -0.4
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**Erosion Loss:**

1700°F (927°C)	Less than 10 cc (Typical 7 cc to 8 cc)
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**Thermal Conductivity or "K" Factor:**

Mean Temp.	BTU/ft <sup>2</sup> /HR/°F/in	W/mK
1000°F (540°C)	66	9.52
1500°F (815°C)	73	10.53

**Typical Chemical Analysis(%):**

SiC	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	TiO <sub>2</sub>	Other
79.8	8.7	9.2	0.2	2.0	TR	0.1

**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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