



PRODUCT DATA

Brand Name: **PROGUN® LC 70G**

Description: ProGun LC 70G is a 3200°F, low-cement gun mix that offers excellent resistance to alkalis. This product is designed to give minimum porosity and low linear change with maximum density and high fired strengths, and can withstand severe high temperature erosive and corrosive environments. **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: 3200°F (1760°C)

Bulk Density (pcf)

	Gun Data	
After 220°F (104°C)	160	(2.56 g/cm ³)
After 1500°F (815°C)	155	(2.48 g/cm ³)

Cold Crushing Strength (psi)

After 1500°F (815°C)	10000 - 14000	(700 - 980 kg/cm ²)
After 2500°F (1370°C)	12000 - 16000	(840 - 1120 kg/cm ²)
After 2910°F (1600°C)	10000 - 14000	(700 - 980 kg/cm ²)

Modulus of Rupture (psi)

After 1500°F (815°C)	1800 - 2300	(126 - 161 kg/cm ²)
After 2500°F (1370°C)	2200 - 2600	(156 - 182 kg/cm ²)
After 2910°F (1600°C)	1800 - 2200	(126 - 154 kg/cm ²)

Thermal Conductivity (K Factor)

Mean Temperature	BTU/ft ² /hr./°F/inch	W/mK
1000°F (540°C)	11.0	1.59
1500°F (815°C)	10.0	1.44
2000°F (1095°C)	10.0	1.44

Permanent Linear Change (%)

After 2500°F (1370°C)	-0.3 to -0.1
After 2910°F (1600°C)	+1.0 to +1.8

Abrasion Loss (using ASTM C-704 Method)

After 1500°F (815°C)	Less than 10 cc
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Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	72.6
Silica (SiO ₂)	21.6
Iron Oxide (Fe ₂ O ₃)	1.2
Titania (TiO ₂)	2.5
Lime (CaO)	1.5
Other	0.6

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

Brand Code: 0398

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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