



PRODUCT DATA

Brand Name: **PROGUN® LC 50G**

Description: ProGun LC 50G is a 3000°F low-cement gun mix. This product is designed to give excellent gunnability, low porosity, minimum linear change, and high fired strengths. **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: 3000°F (1650°C)

Porosity: 24% (typical)

Bulk Density (pcf)

After 220°F (104°C)
After 1500°F (815°C)

Gun Data

135 - 140	(2.16 - 2.24 g/cm ³)
130 - 135	(2.08 - 2.16 g/cm ³)

Cold Crushing Strength (psi)

After 1000°F (540°C)
After 1700°F (927°C)
After 2500°F (1370°C)

7500 - 10000	(525 - 700 kg/cm ²)
7500 - 10000	(525 - 700 kg/cm ²)
9000 - 12000	(630 - 840 kg/cm ²)

Modulus of Rupture (psi)

After 1000°F (540°C)
After 1700°F (927°C)
After 2500°F (1370°C)

1500 - 2000	(105 - 140 kg/cm ²)
1200 - 1700	(84 - 119 kg/cm ²)
2000 - 2500	(140 - 175 kg/cm ²)

Thermal Conductivity (K Factor)

Mean Temperature
500°F (260°C)
1000°F (540°C)
1500°F (815°C)

BTU/ft ² /hr./°F/inch	W/mK
7.5	1.08
7.3	1.05
7.4	1.07

Permanent Linear Change (%)

After 1700°F (927°C)
After 2500°F (1370°C)

-0.4 to -0.1
+0.4 to +0.7

Abrasion Loss (using ASTM C-704 Method)

After 1700°F (927°C)

Less than 12 cc

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	45.7
Silica (SiO ₂)	49.9
Iron Oxide (Fe ₂ O ₃)	0.9
Titania (TiO ₂)	1.2
Lime (CaO)	2.0
Alkalies (Na ₂ O+K ₂ O)	0.3

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

Brand Code: 0386

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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