



# PRODUCT DATA

**Brand Name:** **PROGUN® LC 60G**

**Description:** ProGun LC 60G is a sixty percent alumina, mullite based, 3100°F, low-cement gun mix that offers excellent resistance to alkalis. This product is designed to give excellent gunnability, low porosity, minimum linear change, and high fired strengths. ProGun LC 60G withstands severe high temperature atmosphere reactions, and erosive 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: 3100°F (1700°C)**

**Porosity:** 24% (typical)

	Gun Data	
<b><u>Bulk Density (pcf)</u></b>		
After 220°F (104°C)	150 - 155	(2.40 - 2.48 g/cm <sup>3</sup> )
After 1500°F (815°C)	145 - 150	(2.32 - 2.40 g/cm <sup>3</sup> )
<b><u>Cold Crushing Strength (psi)</u></b>		
After 1000°F (540°C)	7500 - 10000	(525 - 700 kg/cm <sup>2</sup> )
After 1700°F (927°C)	7500 - 10000	(525 - 700 kg/cm <sup>2</sup> )
After 2500°F (1370°C)	9000 - 12000	(630 - 840 kg/cm <sup>2</sup> )
<b><u>Modulus of Rupture (psi)</u></b>		
After 1000°F (540°C)	1500 - 2000	(105 - 140 kg/cm <sup>2</sup> )
After 1700°F (927°C)	1200 - 1700	(84 - 119 kg/cm <sup>2</sup> )
After 2500°F (1370°C)	2000 - 2500	(140 - 175 kg/cm <sup>2</sup> )
<b><u>Thermal Conductivity (K Factor)</u></b>		
Mean Temperature	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>
500°F (260°C)	10.0	1.44
1000°F (540°C)	9.5	1.37
1500°F (815°C)	10.0	1.44
<b><u>Permanent Linear Change (%)</u></b>		
After 1700°F (927°C)	-0.4 to -0.1	
After 2500°F (1370°C)	-0.3 to -0.1	
<b><u>Abrasion Loss (using ASTM C-704 Method)</u></b>		
After 1700°F (927°C)	Less than 12 cc	

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	62.4
Silica (SiO <sub>2</sub> ) .....	32.6
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.0
Titania (TiO <sub>2</sub> ) .....	1.8
Lime (CaO) .....	1.5
Other .....	0.7

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

Brand Code: 0439

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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