

Low Cement Gun Grades

Product Data

ProGun LC 50-7SCG

ProGun LC 50-7SCG is a 1600°C low-cement gun mix that contains Andalusite and Silicon Carbide, It offers excellent thermal shock resistance and resistance to Alkalies,. This product is designed to give excellent gunnability, low porosity, minimum linear change, and high fired strengths. Data shown are average results of tests following the guidelines set forth in ASTM C-903-70 "Preparing Refractory Concrete Specimens by Cold Gunning".

| | |
|--|---|
| <u>Maximum Service Temperature:</u> | 1600°C |
| <u>Bulk Density:</u> | |
| 220°F (105°C) | 150-155 lb/ft ³ (2400-2480 kg/m ³) |
| 1500°F (815°C) | 145-150 lb/ft ³ (2320-2400 kg/m ³) |
| <u>Porosity:</u> | 24% |
| <u>Cold Crushing Strength:</u> | |
| 1700°F (927°C) | 7500-10000 psi (525-700 kg/cm ²) |
| 2500°F (1370°C) | 9000-12000 psi (630-840 kg/cm ²) |
| <u>Modulus of Rupture:</u> | |
| 1700°F (927°C) | 1200-1700 psi (84-119 kg/cm ²) |
| 2500°F (1370°C) | 2000-2500 psi (140-175 kg/cm ²) |
| <u>Permanent Linear Change(%):</u> | |
| 1700°F (927°C) | -0.1 to -0.4 |
| 2500°F (1370°C) | -0.1 to -0.3 |
| <u>Erosion Loss:</u> | |
| 1700°F (927°C) | Less than 12 cc (Typical loss: 7-9 cc) |

| | | |
|---|------------------------------------|-------------|
| <u>Conductivity or "K" Factor:</u> | | |
| Mean Temp. | <u>BTU/ft²/HR/°F/in</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 |

Typical Chemical Analysis(%):

| | | | | | | |
|--------------------------------|------------------|--------------------------------|-----|------------------|-----|-------|
| Al ₂ O ₃ | SiO ₂ | Fe ₂ O ₃ | CaO | TiO ₂ | SiC | Other |
| 51.3 | 34.9 | 0.9 | 2.5 | 1.7 | 7.0 | 0.8 |

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled conditions 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. RESCO PRODUCTS disclaims any expressed or implied warranties based on this sheet. 01/08/13 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet