



LOW CEMENT GUNNING GRADES

PRODUCT DATA

ProGun LC 60SCG

ProGun LC 60SCG IS A 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 AN EXCELLENT CHOICE FOR THE TUBE WALLS IN THE COMBUSTION ZONES OF POWER GENERATING UNITS.

ProGun LC 60SCG CAN ONLY BE APPLIED BY GUNITE.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1480°C)

BULK DENSITY

| | | | | |
|---------|-----------|---------------------|-------------|-------------------|
| @ 110°C | 146 - 151 | LBS/FT ³ | 2340 - 2420 | KG/M ³ |
| @ 815°C | 141 - 146 | LBS/FT ³ | 2260 - 2340 | KG/M ³ |

COLD CRUSHING STRENGTH

| | | | | |
|---------|--------------|--------|-----------|--------------------|
| @ 927°C | 7000 - 11000 | P.S.I. | 483 - 759 | KG/CM ² |
|---------|--------------|--------|-----------|--------------------|

COLD MODULUS OF RUPTURE

| | | | | |
|---------|-------------|--------|-----------|--------------------|
| @ 927°C | 2000 - 3000 | P.S.I. | 138 - 207 | KG/CM ² |
|---------|-------------|--------|-----------|--------------------|

PERMANENT LINEAR CHANGE

| | |
|---------|------------------|
| @ 927°C | 0.10 TO - 0.40 % |
|---------|------------------|

| |
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| EROSION LOSS (ASTM C-704) @ 815°C Less Than 12 CC |
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CONDUCTIVITY OR "K" FACTOR

| | <u>BTU/FT²/HR/°F/IN</u> | <u>W/mK</u> |
|-----------------|------------------------------------|-------------|
| 1000°F (540°C) | 40.0 | 5.8 |
| 1500°F (815°C) | 42.0 | 6.0 |
| 2000°F (1095°C) | 46.0 | 6.6 |

TYPICAL CHEMICAL ANALYSIS (%)

| SiC | AL ₂ O ₃ | SiO ₂ | Fe ₂ O ₃ | CaO | TiO ₂ | OTHER |
|------|--------------------------------|------------------|--------------------------------|-----|------------------|-------|
| 59.3 | 18.0 | 18.0 | 0.2 | 2.5 | 0.3 | 0.2 |

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.

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