LOW CEMENT GUNNING GRADES

PRODUCT DATA

ProGun LC 70G

ProGun LC 70G IS A 1760°C LOW CEMENT, ALKALINE RESISTANT GUN MIX WHICH IS IDEALLY GRAIN SIZE TO GIVE EXCELLENT GUNNABILITY, MINIMUM POROSITY AND LINEAR CHANGE WITH MAXIMUM DENSITY AND HIGH FIRED STRENGTHS. THIS PRODUCT IS DESIGNED TO WITHSTAND SEVERE HIGH TEMPERATURE ATMOSPHERIC, EROSION AND CORROSIVE ENVIRONMENT. DATA SHOWN ARE AVERAGE RESULTS OF TESTS FOLLOWING SAMPLE PREPARATION USING THE GUIDELINES SET FORTH IN ASTM C-903-88, "STANDARD PRACTICES FOR PREPARING REFRACTORY CONCRETES FOR GUNNING".

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1760°C)

BULK DENSITY
@ 110°C 152 - 157 LBS/FT³ 2435 - 2515 KG/M³
@ 815°C 151 - 156 LBS/FT³ 2419 - 2499 KG/M³

COLD CRUSHING STRENGTH
@ 815°C 8500 - 11000 P.S.I. 586 - 759 KG/CM²
@ 1370°C 9000 - 12000 P.S.I. 620 - 828 KG/CM²
@ 1595°C 9000 - 12000 P.S.I. 620 - 828 KG/CM²

COLD MODULUS OF RUPTURE
@ 815°C 1400 - 2000 P.S.I. 97 - 138 KG/CM²
@ 1370°C 1400 - 2000 P.S.I. 97 - 138 KG/CM²

PERMANENT LINEAR CHANGE
@ 815°C 0.00 TO - 0.40 %
@ 1370°C 0.00 TO - 0.50 %

EROSION LOSS (ASTM C-704) @ 815°C Less Than 10 CC

POROSITY
@ 815°C 24 %

CONDUCTIVITY OR "K" FACTOR

<table>
<thead>
<tr>
<th>Temperature</th>
<th>BTU/FT²/HR/°F/IN</th>
<th>W/mK</th>
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<tbody>
<tr>
<td>1000°F (540°C)</td>
<td>11.0</td>
<td>1.59</td>
</tr>
<tr>
<td>1500°F (815°C)</td>
<td>10.0</td>
<td>1.44</td>
</tr>
<tr>
<td>2000°F (1095°C)</td>
<td>10.0</td>
<td>1.44</td>
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TYPICAL CHEMICAL ANALYSIS (%)

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<tbody>
<tr>
<td>AL₂O₃</td>
<td>SiO₂</td>
<td>Fe₂O₃</td>
<td>CaO</td>
<td>TiO₂</td>
<td>OTHER</td>
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<td>70.0</td>
<td>24.6</td>
<td>1.0</td>
<td>1.4</td>
<td>2.2</td>
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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.