

ProGun LC 10SCG

ProGun LC 10SCG IS A 1600°C LOW CEMENT, GUN MIX CONTAINING 10% SILICON CARBIDE. IT IS IDEALLY GRAIN SIZED 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.) (1600°C)

BULK DENSITY

@ 110°C	140 - 148	LBS/FT ³	2240 - 2370	KG/M ³
@ 815°C	137 - 145	LBS/FT ³	2195 - 2322	KG/M ³

COLD CRUSHING STRENGTH

@ 815°C	8500 - 11000	P.S.I.	586 - 759	KG/CM ²
@ 1370°C	9000 - 12000	P.S.I.	620 - 828	KG/CM ²
@ 1595°C	9000 - 12000	P.S.I.	620 - 828	KG/CM ²

COLD MODULUS OF RUPTURE

@ 815°C	1400 - 2000	P.S.I.	97 - 138	KG/CM ²
@ 1370°C	1400 - 2000	P.S.I.	97 - 138	KG/CM ²

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
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<u>POROSITY</u>	@ 815°C	24 %
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CONDUCTIVITY OR "K" FACTOR

	<u>BTU/FT²/HR/°F/IN</u>	<u>W/mK</u>
1000°F (540°C)	11.0	1.59
1500°F (815°C)	10.0	1.44
2000°F (1095°C)	10.0	1.44

TYPICAL CHEMICAL ANALYSIS (%)

AL₂O₃	SiO₂	Fe₂O₃	CaO	TiO₂	SiC
59.6	23.0	1.0	2.5	1.7	10.0

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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