

LOW CEMENT GUNNING GRADES

PRODUCT DATA

ProGun LC 80G

ProGun LC 80G IS A 1760°C LOW CEMENT, BAUXITE BASED GUN MIX WHICH 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, EROSIIVE 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/FT ³	2435 - 2515	KG/M ³
@ 815°C	151 - 156	LBS/FT ³	2419 - 2499	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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POROSITY @ 815°C 24 %

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 (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	TiO ₂	OTHER
78.6	13.1	0.9	2.6	2.5	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.

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