



PRODUCT DATA

Brand R-MAX G

Name:

Description:

R-MAX G is a 3200 °F high performance gunning mix designed to provide maximum abrasion resistance and excellent strengths throughout all operating temperatures. R-Max G should be installed using conventional gunning methods. The data shown are average test results following the guidelines set forth in ASTM C-903; "Preparing Refractory Concrete Specimens by Cold Gunning".

Maximum Service Temperature 3200°F (1760°C)

Bulk Density (lb/ft³)

After 220°F (105°C)	-	159	2,544 (kg/m ³)
After 1500°F (815°C)		154	2,464 (kg/m ³)

Cold Crushing Strength (lb/in²)

After 1500°F (815°C)	10,000 to 14,000	700 to 980 (kg/cm ²)
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Permanent Linear Change (%)

After 1500°F (815°C)	0.0 to -0.4
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Erosion Loss using ASTM C704 Method

After 1500°F (816°C):	8.0 cc max
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Thermal Conductivity (K Factor)

Mean Temperature:	BTU/ft ² /Hr/°F/in.	W/mK
1000°F (540°C)	14.4	2.09
1500°F (815°C)	14.7	2.13
2000°F (1095°C)	15.0	2.18

Typical Chemical Analysis (%)

Al ₂ O ₃	73.1
SiO ₂	22.0
TiO ₂	1.6
Fe ₂ O ₃	1.4
CaO	1.7
Others	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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PRODUCT DATA

Brand Name:

R-MAX G

(Cast Data)

Description:

R-MAX G is erosion resistant gunning mix that has been cast in the laboratory as a means of testing and controlling the quality of the product. It is not recommended that the material be applied in the field by casting application methods. Test results shown below are typical of LABORATORY CAST SPECIMENS ONLY.

Bulk Density (lb/ft³)

After 220°F (105°C)	158	2,528 (kg/m ³)
After 1500°F (815°C)	155	2,480 (kg/m ³)

Cold Crushing Strength (lb/in²)

After 1500°F (815°C)	10,000 to 14,000	700 to 980 (kg/cm ²)
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Permanent Linear Change (%)

After 1500°F (815°C)	0.0 to -0.3
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Erosion Loss using ASTM C704 Method

After 1500°F (816°C):	8.0 cc max
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Note: Product cannot be cast after one day from manufacturing date