



Brick

Product Data

GR-FG[®] 50

Classification: GR-FG[®] 50 is a high fired magnesia chrome brick of the sixty percent magnesia class containing a proportion of fused magnesia chrome grain. The high purity fused magnesia chrome addition creates a balanced level of direct and secondary chrome spinel bonding which produces a high hot strength, tight textured, low porosity brick. GR-FG[®] 50 offers a cost effective alternative to GR-FG[®] and GR-FG[®] 100 in a variety of non-ferrous and ferrous applications.

<u>Physical Data: (Typical)</u>	<u>English Units</u>	<u>SI Units</u>
Bulk Density	$\frac{\text{lb/ft}^3}{202}$	$\frac{\text{kg/m}^3}{3,236}$
Apparent Porosity	15.0%	
Modulus of Rupture At 70°F (21°C)	$\frac{\text{lb/in}^2}{1160}$	$\frac{\text{MPa}}{8.0}$
Hot Modulus of Rupture At 2700°F (1480°C)	920	6.3
Cold Crushing Strength	6,750	46.6

Chemical Analysis: (Approximate)

(Calcined Basis)

Magnesia	(MgO)	60.2%
Chromia	(Cr ₂ O ₃)	18.3%
Alumina	(Al ₂ O ₃)	7.4%
Silica	(SiO ₂)	2.2%
Iron Oxide	(Fe ₂ O ₃)	11.0%
Lime	(CaO)	0.9%

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), 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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