



Brick

Product Data

GREENFREE KF

Classification: GREENFREE KF is a chrome free magnesia brick with increased insulating value for lower rotary kiln shell temperatures. GREENFREE KF has good structural flexibility and provides enhanced thermal shock properties and makes the product suitable for cement kiln upper transition zones and burning zones of rotary pebble lime and lime recovery kilns.

<u>Physical Data: (Typical)</u>	<u>English Units</u>	<u>SI Units</u>
Bulk Density – ASTM C20	$\frac{\text{lb}}{\text{ft}^3}$ 174	$\frac{\text{Kg}}{\text{m}^3}$ 2787
Apparent Porosity – ASTM C830		20.8%
Modulus of Rupture – ASTM C133 At 70°F (21°C)	$\frac{\text{lb}}{\text{in}^2}$ 880	$\frac{\text{N}}{\text{mm}^2}$ 6.1
Crushing Strength – ASTM C133 At 70°F (21°C)	4090	28.2
Thermal Conductivity @1500°F (816°C)		19.5 BTU-in/sq. ft.-hr.-°F

Chemical Analysis: (Approximate)
(Calcined Basis)

Magnesia	(MgO)	87.2%
Alumina	(Al ₂ O ₃)	10.0%
Lime	(CaO)	1.4%
Silica	(SiO ₂)	0.7%
Iron Oxide	(Fe ₂ O ₃)	0.7%

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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