



Brick

Product Data

GREENFREE 92

Classification: GREENFREE 92 is a high fired, chrome free magnesia brick with excellent resistance to chemical attack and high thermal loading. GREENFREE 92 has good structural flexibility which provides enhanced thermal shock properties and makes the product suitable for cement burning zones or burning zone/transition zone margins and burning zones of rotary lime kilns.

<u>Physical Data: (Typical)</u>	<u>English Units</u>	<u>SI Units</u>
Bulk Density – ASTM C134	$\frac{\text{lb/ft}^3}{173}$	$\frac{\text{kg/m}^3}{2772}$
Apparent Porosity – ASTM C830		20.9%
Modulus of Rupture – ASTM C133 At 70°F (21°C)	$\frac{\text{lb/in}^2}{780}$	$\frac{\text{N/mm}^2}{5.4}$
Crushing Strength – ASTM C133 At 70°F (21°C)	5480	37.8
Thermal Expansion 2550°F (1400°C)		1.8%

Chemical Analysis: (Approximate) (Calcined Basis)

Magnesia	(MgO)	91.8%
Alumina	(Al ₂ O ₃)	4.7%
Lime	(CaO)	1.8%
Silica	(SiO ₂)	0.9%
Iron Oxide	(Fe ₂ O ₃)	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 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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