



# Brick

## Product Data

### NUCON<sup>®</sup>

Classification: Burned Magnesite - Chrome Brick

<u>Physical Data: (Typical)</u>	<u>English Units</u> <u>lb/ft<sup>3</sup></u>	<u>SI Units</u> <u>kg/m<sup>3</sup></u>
Bulk Density	191	3,059
Apparent Porosity, %	18.2	18.2
	<u>lb/in<sup>2</sup></u>	<u>N/mm<sup>2</sup></u>
Crushing Strength At 70°F (21°C)	4,090	28
Modulus of Rupture At 70°F (21°C)	620	4
At 2700°F (1482°C)	400	3
<b>Reheat Test</b>		
Permanent Linear Change, % After Heating at 3140°F (1727°C)		+0.1
<b>Load Test, 25 psi (1.8 kg/cm<sup>2</sup>)</b>		
% Linear Subsidence After Heating at 3100°F (1705°C)		1.5
<u>Chemical Analysis: (Approximate)</u> (Calcined Basis)		
Silica	(SiO <sub>2</sub> )	1.4 %
Alumina	(Al <sub>2</sub> O <sub>3</sub> )	5.2
Titania	(TiO <sub>2</sub> )	0.2
Iron Oxide	(Fe <sub>2</sub> O <sub>3</sub> )	8.2
Lime	(CaO)	0.7
Magnesia	(MgO)	70.2
Chromic Oxide	(Cr <sub>2</sub> O <sub>3</sub> )	14.1

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.

RESCO PRODUCTS disclaims any express or implied warranties based on this sheet.

2/5/2008 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet