



Brick

Product Data

NUCON 50[®]

Classification: Burned Magnesite - Chrome Brick

Physical Data: (Typical)

	<u>English Units</u> <u>lb/ft³</u>	<u>SI Units</u> <u>kg/m³</u>
Bulk Density	195	3,124
Apparent Porosity, %	17.7	17.7
	<u>lb/in²</u>	<u>N/mm²</u>
Crushing Strength		
At 70°F (21°C)	3,960	27
Modulus of Rupture		
At 70°F (21°C)	950	7
At 2700°F (1482°C)	490	3
Reheat Test		
Permanent Linear Change, %		
After Heating at 3140°F (1727°C)	+0.2	
Load Test, 25 psi (1.8 kg/cm ²)		
% Linear Subsidence		
After Heating at 3100°F (1705°C)	2.3	
<u>Chemical Analysis: Approximate</u> (Calcined Basis)		
Silica	(SiO ₂)	2.1 %
Alumina	(Al ₂ O ₃)	15.6
Titania	(TiO ₂)	0.2
Iron Oxide	(Fe ₂ O ₃)	9.6
Lime	(CaO)	0.8
Magnesia	(MgO)	49.9
Chromic Oxide	(Cr ₂ O ₃)	21.8

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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