



Brick

Product Data

PERATEX® C

Classification: PERATEX® C is a burned 94% magnesia class with good hydration resistance. PERATEX® C can be supplied plain or pitch impregnated for added resistance to slag and metal penetration. PERATEX® C can be used in the sub-hearths of electric arc furnaces and as a chrome free basic safety lining.

<u>Physical Data: (Typical)</u>	<u>English Units</u>	<u>SI Units</u>
Bulk Density	$\frac{\text{lb}}{\text{ft}^3}$ 179	$\frac{\text{kg}}{\text{m}^3}$ 2,867
Apparent Porosity	18.3%	
Modulus of Rupture At 70°F (21°C)	$\frac{\text{lb}}{\text{in}^2}$ 2,300	MPa 15.8
Hot Modulus of Rupture At 2300°F (1260°C)	430	3.0
Cold Crushing Strength	9,480	65.2
Thermal Conductivity At a Mean Temperature of	$\frac{\text{Btu}\cdot\text{in}}{\text{hr}\cdot\text{ft}^2\cdot^\circ\text{F}}$	$\frac{\text{W}}{\text{m}\cdot^\circ\text{C}}$
400°F (204°C)	68	9.8
1200°F (650°C)	33	4.8
2000°F (1093°C)	32	4.6

Chemical Analysis: (Approximate)
(Calcined Basis)

Magnesia	(MgO)	94.3%
Alumina	(Al ₂ O ₃)	0.7%
Silica	(SiO ₂)	2.2%
Iron Oxide	(Fe ₂ O ₃)	0.9%
Lime	(CaO)	1.9%

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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