



Brick

PRODUCT DATA

EAGLE 18

Description: A resin bonded magnesia carbon brick suitable for high wear areas in electric arc furnaces. The high purity magnesia and flake graphite source provide excellent resistance to thermal shock and highly oxidizing conditions created by iron oxide-rich slag and fume.

Bulk Density (lb/ft³) : 175 2.80 g/cm³

Coked Properties

Density (lb/ft³)	169	2.71 g/cm ³
Porosity (%)	12.6	
Total Carbon (%)	16.6	

Modulus of Rupture (psi)
At 70°F (21°C) : 1,700 11.7 N/mm²

Typical Calcined Chemical Analysis - Including antioxidant additions (%)

Magnesia (MgO)	95.7
Alumina (Al ₂ O ₃)	0.3
Lime (CaO)	1.9
Silica (SiO ₂)	1.4
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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