



Brick

Product Data

EAGLE® 18

EAGLE® 18 is 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.

Physical Properties

Bulk Density	180 lb/ft ³	2.89 g/cm ³
Modulus of Rupture.....	1500 lb/in ²	10.3 MPa
Apparent Porosity	4%	
Residual Carbon	16-18%	

Coked Properties

Modulus of Rupture.....	500 lb/in ²	3.5 MPa
Apparent Porosity	11.9%	

Hot Modulus of Rupture

@ 2550°F (1400°C)	700 lb/in ²	4.8 MPa
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CHEMICAL ANALYSIS - (loss free) mass %*

Magnesia - MgO	96.9%
Lime - CaO	2.3%
Silica SiO ₂	0.4%
Iron Oxide - Fe ₂ O ₃	0.2%
Alumina - Al ₂ O ₃	0.2%

*Carbon free analysis

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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