



Brick

Product Data

FERROX[®] X

FERROX[®] X is a hard burned, high density magnesia brick of the 96% magnesia class. Extensive direct bonding and low porosity creates improved hot strength properties. The good resistance to thermal shock and thermal cycling is further improved by pitch impregnation which also decreases slag and metal penetration. **FERROX[®] X** can be used below metal contact lines in primary steelmaking applications.

REHEAT (Permanent Linear Change) - ASTM C113

Contraction or Expansion at 2910°F (1600°C).... 0.3% contr.

APPARENT POROSITY - ASTM C20..... 3.25%

.....	lb/ft³	g/cm³
BULK DENSITY - ASTM C20	195.0	3.12

.....	lb/in²	MPa
MODULUS OF RUPTURE - ASTM C133	2300	15.9

HOT MODULUS OF RUPTURE - ASTM C583

Heated at 2700°F (1480°C) 1760 12.1

LINEAR THERMAL EXPANSION

Ambient to 2550°F (1400°C)..... 2.1%

CHEMICAL ANALYSIS (loss free) mass%

Magnesia - MgO	96.4%
Lime - CaO	2.3%
Silica - SiO ₂	0.9%
Iron Oxide - Fe ₂ O ₃	0.2%
Alumina - Al ₂ O ₃	0.15%
Residual Carbon - C	3.5%

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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