



Durachrome® 60 DB

DESCRIPTION: Direct-bonded magnesia-chrome brick made from high-purity magnesia and chrome ore. Improved thermal shock resistance.

USES INCLUDE: Electric furnace roofs and sidewalls
AODs
Degassers
Copper Converters
Lead Smelters
Nickel Converters
Ladle Working and Tank Linings

CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate %)

MgO	62 %
Cr ₂ O ₃	17 %
SiO ₂	1.5 %
Al ₂ O ₃	6.0 %
Fe ₂ O ₃	12 %
CaO	1.5 %

TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity %	</=19.0
Bulk Density, pcf (g/cm ³)	191(3.06)
CCS psi (Mpa)	5800(40)
HMOR, 2700F psi (Mpa)	360(2.5)
RUL, °F(°C)	>3092(1700)
Thermal conductivity, BTU/sf/hr2(W/MK)	
400°F(200°C)	23
800°F(426°C)	21.5
1200°F(648°C)	20.4

The values reported above are average values derived from production data encompassing many different sizes and shapes. Actual data will vary to a small degree naturally, and as a function of size and shape. This form is not intended to be used for purposes of specification, it is informational only.

Version 20.11