INFORMATION BULLETIN

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_2O_3	17%
Fe_2O_3	12%
Al_2O_3	6.0%
CaO	1.5%
SiO_2	1.5%

TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity (%):	≤ 19.0
Bulk Density, pcf (g/cm^3):	191 (3.06)
Cold Crushing Strength psi (MPa):	5800 (40)
Hot MOR, 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.

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