



Durachrome[®] 70 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	70%
Cr ₂ O ₃	13.5%
Fe ₂ O ₃	10%
Al ₂ O ₃	5.0%
CaO	1.4%
SiO ₂	1.4%

TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity (%):	≤ 18.0
Bulk Density, pcf (g/cm ³):	194 (3.10)
Cold Crushing Strength psi (MPa):	4350 (30)
Hot MOR, 2700F psi (Mpa):	290 (2)
RUL, ° F (° C):	> 3092 (1700)
Thermal conductivity, BTU/sf/hr2 (W/mk):	
400° F (200° C)	25.3
800° F (426° C)	26
1200° F (648° C)	25.6

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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