

DURACHROME® FG85

DESCRIPTION: Magnesia-Chrome Brick, fired, made with predominately fused magnesite-chrome grain. Very high erosion and slag resistance with excellent resistance to thermal cycling. Low residuals and higher chrome content than standard for higher wear areas like tuyeres, slag lines and snorkels.

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 %-

Magnesia	MgO	58%
Chromic Oxide	Cr ₂ O ₃	22%
Silica	SiO ₂	1.1%
Alumina	Al ₂ O ₃	1.3%
Iron Oxide	Fe ₂ O ₃	11%
Lime	CaO	7%

TYPICAL AS RECEIVED PROPERTIES:

Bulk Density	pcf (g/cm ³)	205(3.28)
Apparent Porosity	%	14
CCS	psi (Mpa)	8700(60)
HMOR, 2700F	psi (Mpa)	435(3)
RUL	°F(°C)	>3092(1700)
Thermal conductivity, BTU/sf/hr ² (W/MK)		
	400°F(200°C)	34.0
	800°F(426°C)	28.2
	1200°F(648°C)	26.0

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.