

Epic® 70LD

DESCRIPTION: Low density alumina brick with good insulation value while still providing high refractoriness

USES INCLUDE: Insulation in extreme high temperature applications, as well as those where the insulator may occasionally come into contact with slag and/or metal

CHEMICAL ANALYSIS:

Approximate % - calcined basis

Alumina	Al ₂ O ₃	77%
Silica	SiO ₂	21.0%
Ferric Oxide	Fe ₂ O ₃	0.4%

TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity, %	30
Bulk Density pcf (g/cm ³)	84 (1.35)
Cold Crushing Strength, psi (Mpa)	870 (6)
Refractoriness under Load, OF (°C)	2732 (1500)
Linear change, %:	0.4
8 hrs at temp, °F (°C)	3146(1730)
Thermal conductivity, BTU/SF/HR2 (W/MK)	
752F(400C)	5.48 (0.79)
1472(800C)	6.24 (0.90)
1832(1000C)	7.14 (1.03)

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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