



## Epic® 70 LD

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**DESCRIPTION:** Low-density alumina brick with good insulation value while 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: (TYPICAL CHEMICAL ANALYSIS)

(Approximate %)

Al <sub>2</sub> O <sub>3</sub>	77.0%
SiO <sub>2</sub>	21.0%
Fe <sub>2</sub> O <sub>3</sub>	0.4%

### TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity (%):	30.0
Bulk Density pcf (g/cm <sup>3</sup> ):	84 (1.35)
Cold Crushing Strength psi (MPa):	870 (6)
Linear Change (%):	0.4
8 hrs @ temp °C (°F):	1730 (3146)
Refractoriness Under Load:	
°C (°F)	1500 (2732)
Thermal Conductivity BTU/SF/hr <sup>2</sup> (W/mk):	
@ 400°C (752°F)	0.79 (5.48)
@ 800°C (1472°F)	0.90 (6.24)
@ 1000°C (1832°F)	1.03 (7.14)

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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