

## Chosun Refractories H-1 High Alumina brick

Category : Ceramic , Oxide , Aluminum Oxide

**Material Notes:**

Information provided by Chosun Refractories via Korea Institute of Ceramic Engineering and Technology (KICET).

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chosun-Refractories-H-1-High-Alumina-brick.php](http://www.lookpolymers.com/polymer_Chosun-Refractories-H-1-High-Alumina-brick.php)

Physical Properties	Metric	English	Comments
Bulk Density	2.58 g/cc	0.0932 lb/in <sup>3</sup>	
Porosity	20 %	20 %	

Mechanical Properties	Metric	English	Comments
Compressive Strength	53.9 MPa	7820 psi	Cold Crushing Strength

Thermal Properties	Metric	English	Comments
CTE, linear	6.50 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	3.61 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 1000 $^\circ\text{C}$	@Temperature 1830 $^\circ\text{F}$	
Shrinkage	-0.300 - 0.30 %	-0.300 - 0.30 %	
	@Temperature 1500 $^\circ\text{C}$ , Time 7200 sec	@Temperature 2730 $^\circ\text{F}$ , Time 2.00 hour	

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	73 %	73 %	
Fe <sub>2</sub> O <sub>3</sub>	1.5 %	1.5 %	

Descriptive Properties	Value	Comments
Main Application	Used in various furnace as bricks in accordance with KSL	
Refractories Under Load(2kg/?,T?)	1,580	
Refractoriness (SK)	38=	

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