

Chosun Refractories HL-18 Special Insulating Firebrick

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-HL-18-Special-Insulating-Firebrick.php

Physical Properties	Metric	English	Comments
Bulk Density	$\geq 1.50 \text{ g/cc}$	$\geq 0.0542 \text{ lb/in}^3$	

Mechanical Properties	Metric	English	Comments
Compressive Strength	$\leq 14.7 \text{ MPa}$	$\leq 2130 \text{ psi}$	Cold Crushing Strength

Thermal Properties	Metric	English	Comments
CTE, linear	$6.30 \mu\text{m/m-}^\circ\text{C}$	$3.50 \mu\text{in/in-}^\circ\text{F}$	
	@Temperature 1000 $^\circ\text{C}$	@Temperature 1830 $^\circ\text{F}$	
Thermal Conductivity	$\geq 1.047 \text{ W/m-K}$	$\geq 7.253 \text{ BTU-in/hr-ft}^2\text{-}^\circ\text{F}$	
	@Temperature 350 $^\circ\text{C}$	@Temperature 662 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	$\leq 90 \%$	$\leq 90 \%$	
Fe ₂ O ₃	$\geq 0.50 \%$	$\geq 0.50 \%$	

Descriptive Properties	Value	Comments
Main Applications	High temperature, furnaces and Various Furnaces	
Temp.(?) Reheating Shrinkage less than 0.5%	1,800	

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