

Chosun Refractories IC-S Special Insulating Firebrick

Category : Ceramic

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-IC-S-Special-Insulating-Firebrick.php

Physical Properties	Metric	English	Comments
Bulk Density	$\geq 1.70 \text{ g/cc}$	$\geq 0.0614 \text{ lb/in}^3$	

Mechanical Properties	Metric	English	Comments
Compressive Strength	$\leq 21.6 \text{ MPa}$	$\leq 3130 \text{ psi}$	Cold Crushing Strength

Thermal Properties	Metric	English	Comments
CTE, linear	$5.50 \mu\text{m/m-}^\circ\text{C}$	$3.06 \mu\text{in/in-}^\circ\text{F}$	
	@Temperature 1000 $^\circ\text{C}$	@Temperature 1830 $^\circ\text{F}$	
Thermal Conductivity	$\geq 0.6979 \text{ W/m-K}$	$\geq 4.836 \text{ BTU-in/hr-ft}^2\text{-}^\circ\text{F}$	
	@Temperature 350 $^\circ\text{C}$	@Temperature 662 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	$\leq 35 \%$	$\leq 35 \%$	
Fe ₂ O ₃	2.0 %	2.0 %	

Descriptive Properties	Value	Comments
Main Applications	Ladle Cement R/K	
Temp.(?) Reheating Shrinkage less than 0.5%	1,350	

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