

Zircar Refractory Composites RS-A3 Refractory Sheet

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

This product is made from Type RS-A Moldable. Type RS-A was developed as an asbestos board replacement for induction coil liners and molten metal transport, and contains no asbestos. Refractory Sheet Type RS-A is ideally suited for a wide range of high temperature, high thermal shock applications. Type RS-A3 is fired, hardened with ZRCI AL-Hard at 5% pickup, and re fired. Information provided by ZIRCAR Refractory Composites, Inc. (ZRCI)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Refractory-Composites-RS-A3-Refractory-Sheet.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	
Porosity	38 %	38 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	
Modulus of Rupture	0.00910 GPa	1.32 ksi	parallel to thickness
Compressive Yield Strength	17.2 MPa	2490 psi	at 10% deflection, parallel to thickness

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.047 J/g-°C	0.2502 BTU/lb-°F	
Thermal Conductivity	0.650 W/m-K	4.51 BTU-in/hr-ft ² -°F	parallel to thickness
Maximum Service Temperature, Air	1450 °C	2640 °F	
Shrinkage	0.000 % @Temperature 1200 °C, Time 57600 sec	0.000 % @Temperature 2190 °F, Time 16.0 hour	perpendicular to thickness

Component Elements Properties	Metric	English	Comments
Al2O3	90 %	90 %	
SiO2	10 %	10 %	

Processing Properties	Metric	English	Comments
Moisture Content	2.0 %	2.0 %	

Descriptive Properties	Value	Comments
Color	White	

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