

AmorSil IR-A16

AmorSil IR-A16 Material Overview

IR-A16 AmorSil is Refractory Specialties' reflective insulation board. It uses amorphous silica based fiber chemistry to provide thermal insulation with excellent infra-red reflection properties. AmorSil can be used in applications with a high radiant heat component, either as a superior backing insulation, or as a protective reflection surface. IR-A16 AmorSil resists thermal shock allowing for faster cycle times, and high temperature gradients for radiant heat applications. RSI's vast forming and machining capabilities allow IR-A16 AmorSil to be made in a variety of shapes, besides standard boards and blocks, and can be tailor made to customer required shapes and specifications. This material is also easily cut and formed using hand-tools. To answer any questions, or if you have special requirements that aren't covered by this product, call for our expert assistance at (330) 938-2101.

AmorSil IR-A16 Technical Information

<u>Property</u>	<u>Typical Results</u>
Density	10 to 16 lb/ft ³
Apparent Porosity	90% to 94%
Maximum Use Temperature	2000 F
Melting Point	3000 F
Linear Shrinkage	
1600 F	> 1%
1800 F	> 2%
Thermal Conductivity	
400 F	0.36 Btu-in/hr/ft ² /°F
800 F	0.56 Btu-in/hr/ft ² /°F
1200 F	1.02 Btu-in/hr/ft ² /°F
1600 F	1.34 Btu-in/hr/ft ² /°F
2000 F	2.00 Btu-in/hr/ft ² /°F
Typical Chemical Analysis (After Use)	
SiO ₂	98 % (By Weight)
Other	2 % (By Weight)

Other Information

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