

**SILCOLITE™ S16**

**SILCOLITE™ S16 Material Overview**

SILCOLITE S16 is Refractory Specialties' insulation board. It uses amorphous silica based fiber chemistry to provide thermal insulation. It is highly resistant to attack by phosphoric acid. SILCOLITE S16 resists thermal shock allowing for faster cycle times, and high temperature gradients for heat applications. RSI's vast forming and machining capabilities allow SILCOLITE S16 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.

**SILCOLITE™ S16 Technical Information**

<u>Property</u>	<u>Typical Results</u>
Density	10 to 18 lb/ft <sup>3</sup>
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 <sup>2</sup> /°F
800 F	0.56 Btu-in/hr/ft <sup>2</sup> /°F
1200 F	1.02 Btu-in/hr/ft <sup>2</sup> /°F
1600 F	1.34 Btu-in/hr/ft <sup>2</sup> /°F
2000 F	2.00 Btu-in/hr/ft <sup>2</sup> /°F
Typical Chemical Analysis (After Use)	
SiO <sub>2</sub>	98 % (By Weight)
Other	2 % (By Weight)

**Other Information**

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