

## TR<sup>®</sup> 2000-SL Structural Block Insulation

Datasheet Code US: 10-14-112

SDS: TR500

### Product Description

TR-2000 SL Block Insulation is an asbestos-free insulation, manufactured from calcium silicate and reinforced with cellulose fibers. This product is versatile and available in a wide range of sizes with either beveled or straight edges. Because of their low conductivity, the board is an economical, energy saving insulation. It exhibits minimal shrinkage at top temperature limits, and will not decompose at its maximum service temperature.

### Features

- Very low thermal conductivity
- Lightweight
- Good high-temperature strength

### Applications

- Tub wall insulating material in carbon baking pits
- Backup insulation in aluminum pot cells
- Reheat and pusher furnaces
- General backup insulation
- Commercial appliances

### Size and Availability

<u>Product</u>	<u>Thickness, in</u>	<u>Length x Width, in</u>
TR-2000 SL	1-4	36 x 12
	<u>Thickness, mm</u>	<u>Length x Width, mm</u>
	25-100	914 x 304

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Structural Block Product Name	TR-2000 SL
Material Class	Crystalline Silica
<b>Physical Properties</b>	
Color	off-white
Continuous Use Temperature, °F	1922
Continuous Use Temperature, °C	1050
Classification Temperature, °F	2000
Classification Temperature, °C	1080
Porosity, ASTM C493, %	90
Compressive strength, @ 10% deformation, psi	215
Compressive strength, @ 10% deformation, MPa	1.48
<b>Density, ASTM C303, pcf</b>	
ambient	17.5
<b>Density, ASTM C 303, kg/m<sup>3</sup></b>	
ambient	280
<b>Modulus of Rupture, MOR, ASTM C 203, psi</b>	
ambient	155
<b>Modulus of Rupture, MOR, ASTM C 203, MPa</b>	
ambient	1.07
<b>Permanent Reheat Shrinkage, ASTM C356, fired 24 hours, %</b>	
1900°F (1038°C)	1
<b>Chemical Analysis, % weight basis after firing</b>	
Silica, SiO <sub>2</sub>	49
Calcium oxide, CaO	46
Ferric Oxide, Fe <sub>2</sub> O <sub>3</sub>	5
Loss of Ignition, LOI	10.5
<b>Thermal Conductivity, BTU·in/hr·ft<sup>2</sup>, per ASTM C201</b>	
<u>Density, pcf</u>	<u>17.5</u>
500°F	0.55
1000°F	0.72
1500°F	0.96
1800°F	1.12
<b>Thermal Conductivity, W/m·K, per ASTM C201</b>	
<u>Density, kg/m<sup>3</sup></u>	<u>280</u>
260°C	0.08
538°C	0.1
816°C	0.14
980°C	0.16

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