



industries3r.com

Danville office

Industries 3R inc.
55, Road 116 West
Danville (Quebec)
Canada J0A 1A0

Telephone: (819) 839-2793
Fax: (819) 839-2797
Toll-free: (800) 567-2728
Email: info@industries3r.com

Montreal office

Industries 3R inc.
1479, Begin street
Ville St-Laurent (Quebec)
Canada H4R 1V8

Telephone: (514) 333-3971
Fax: (514) 333-7224
Email: info@industries3r.com

3R2500

SILICA

Made of special glass fibers with a filament diameter of 6-9 mm, this silica mat represents a modern product generation that, in any aspect, meets with all stringent requirements as to temperature consistency and environmental health standards.

The fibers are formed mechanically without the use of chemical bonding agents. The 3R2500 keeps a very high chemical and physical stability up to 1832°F.



APPLICATIONS

Because of its low thermal conductivity it is the ideal raw material for the production of flexible insulating mats. It is easy to cut and is non-combustible. The 3R2500 can be used for the following applications : industrial ovens, chimneys, boilers, steel industry, gas exhaust systems, laboratories and fire protection.

SPECIFICATIONS

Technical Data

Temperature	1 000 °C (1 832 °F)
Thickness available	1/4", 1/2", 3/4" and 1"
Density available	8-10 pcf
Chemical composition	
SiO2	95%
Al2O3	4%
Na2O	1%
Physical properties	
Shrinkage at 1 000 °C / 4 hours	< 8%
Loss of ignition (1000 °C / 1 hour)	< 12%
Combustibility	non-combustible
Thermal Conductivity (W/m°K)	
Density - 8 lbs/ft3	

• 50°C (122°F)	0.045
• 200°C (392°F)	0.060
• 400°C (752°F)	0.104
• 600°C (1112°F)	0.172
• 800°C (1472°F)	0.263
• 1000°C (1832°F)	0.377

Density - 10 lbs/ft³

• 50°C (122°F)	0.046
• 200°C (392°F)	0.064
• 400°C (752°F)	0.113
• 600°C (1112°F)	0.186
• 800°C (1472°F)	0.281
• 1000°C (1832°F)	0.396

Absorption coefficients

400 Hz	0.14
500 Hz	0.24
800Hz	0.44
1000 Hz	0.58
2000 Hz	0.87
4000 Hz	0.96
5000 Hz	0.98
10 000 Hz	0.94

N.B. The information, details and values indicated are to the best of our knowledge. We recommend to conduct tests according to local conditions. The data is subject to some variations without notice.