

# Refrasil® Blanket RB1800

## High Temperature Blanket Insulation



### Description

REFRASIL® BLANKET RB1800 is a lightweight, high temperature insulation composed of 100% amorphous silica fiber that has the following unique physical properties:

- Zero shot content
- Binder free
- Outstanding chemical resistance especially acids and acidic vapors
- Contains no asbestos or refractory ceramic fiber (RCF)
- Excellent sound absorption
- Highly resilient
- Not soluble in water or oil
- Non-respirable
- Outstanding resistance to vibrational degradation
- Increased strength with Temperature

### Standard Sizes

#### Thickness x Roll Width

3mm x 920 mm  
6mm x 920 mm  
12mm x 920 mm  
25mm x 920 mm

Special sizes available upon request

### Density

144 - 168 kg/m<sup>3</sup>

### Fibre Properties

Fibre Diameter: 6-13 microns  
Fibre Length: 50-102 mm avg.

### Maximum Continuous Use Temperature

Continuous use: 980°C

Melting point: 1593°C

### Tensile Strength (ASTM C686)

250 Grams / gram (1 inch material)

### Chemical Analysis

Silica (SiO <sub>2</sub> )	- 93.5% minimum
Alumina (Al <sub>2</sub> O <sub>3</sub> )	- 4.0%
Sodium (Na <sub>2</sub> O)	- 0.8%
Calcium Oxide (CaO)	- 0.8%
Others	- 1.0%

### Permanent Linear Change (ASTM C356)

% shrinkage

24 hrs. at 540°C	- 3.00%
24 hrs. at 650°C	- 4.00%
24 hrs. at 760°C	- 6.50%
24 hrs. at 870°C	- 6.50%
24 hrs. at 980°C	- 6.50%
24 hrs. at 1090°C	- 8.00%

### Thermal Conductivity (ASTM C177)

Mean Temperature      Btu-in/hr.ft<sup>2</sup> °F

200°C	0.36
400°C	0.59
600°C	0.93
820°C	1.39
980°C	1.93

The test data shown are based on average results on production Samples and are subject to normal variation on individual tests. Therefore, the above listed data should not be taken as established maximum or minimum specifications.



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