

# Refrasil® Blanket RB2000

## High Temperature Blanket Insulation



### Description

REFRASIL® BLANKET RB2000 is a lightweight, high temperature insulation composed of 100% amorphous silica fiber that has been specially treated to reduce residual shrinkage at elevated temperatures. It has the following unique properties: -

- Zero shot content
- Extremely Low Shrinkage
- Binder free
- Outstanding chemical resistance especially acids
- Contains no asbestos or refractory ceramic fiber (RCF)
- Excellent sound absorption
- Highly resilient
- Not soluble in water
- Non-respirable

### Standard Sizes

Thickness Roll Width

3mm x 840 mm

6mm x 840 mm

12mm x 840 mm

25mm x 840 mm

Special sizes available upon request

### Density

168 – 192 kg/m<sup>3</sup>

### Fibre Properties

Fibre Diameter: 6-13 microns

Fibre Length: 50-102 mm avg.

### Maximum Continuous Use Temperature

Intermittent Use: 1200°C

Continuous Use: 1090°C

Melting Point: 1593°C

### Tensile Strength (ASTM C686)

Yet to be determined

### Chemical Analysis

Silica (SiO<sub>2</sub>) - > 93.5% minimum

Alumina (AL<sub>2</sub>O<sub>3</sub>) - 4.0%

Others - < 1.0%

### Permanent Linear Change (ASTM C356)

% shrinkage

24 hrs. at 540°C - 0.05%

24 hrs. at 650°C - 0.06%

24 hrs. at 760°C - 0.06%

24 hrs. at 870°C - 0.10%

24 hrs. at 980°C - 0.30%

24 hrs. at 1090°C - 0.70%

### Thermal Conductivity (ASTM C177)

Mean Temperature Kcal-m/hr.sq.m °C

260°C 0.054

540°C 0.094

820°C 0.166

980°C 0.231

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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