# REFRASIL® BLANKET 1800 (RB1800)

# High Temperature Blanket Insulation



# **DESCRIPTION** – REFRASIL®

BLANKET 1800 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 Roll Width
1/8" ( 3mm) 36" (92cm)
1/4" ( 6mm) 36" (92cm)
1/2" (12mm) 36" (92cm) 1"
(25mm) 36" (92cm)

\* Special sizes available upon request

#### **DENSITY**

9.0 - 10.5 lbs./ft.3 (144 - 168 kg/m3)

#### FIBER PROPERTIES

Fiber diameter: 6-13 microns

Fiber length: 2" - 4" avg. (50-102 mm)

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. For technical support or specific application information, contact the HITCO Carbon Composites Materials & Fabrication Department at (800) 421-5444, or visit our website at www.hitco.com

#### MAXIMUM CONTINUOUS USE TEMPERATURE

For continuous use: 1800° F ( 980° C) Melting

point: 2900° F (1593° C)

## **TENSILE STRENGTH (ASTM C686)**

250 Grams / gram (1 inch material)

# **CHEMICAL ANALYSIS**

#### PERMANENT LINEAR CHANGE (ASTM C356)

% shrinkage 24 hrs. at 1000° F ( 540° C) - 3.00% 24 hrs. at 1200° F ( 650° C) - 4.00% 24 hrs at 1400° F ( 760° C) - 6.50% 24 hrs. at 1600° F ( 870° C) - 6.50% 24 hrs. at 1800° F ( 980° C) - 6.50% 24 hrs. at 2000° F (1090° C) - 8.00%

# THERMAL CONDUCTIVITY (ASTM C177)

Mean Temperature	Btu-in/hr.ft <sub>2</sub> °F
400° F ( 200° C)	0.36
750° F (400°C)	0.59
1100° F (600° C)	0.93
1500° F (820° C)	1.39
1800° F (980° C)	1.93

