

**General Product Information:**

ROXUL® products are mineral wool fibre insulations made from basalt rock and slag. This combination results in a non-combustible product with a melting point of approximately 2150°F (1177°C), which gives it excellent fire resistance properties. ROXUL mineral wool is a water repellent yet vapour permeable material.

**Description & Common Applications:**

The RHT® 80 product is a non-combustible, rigid mineral wool insulation board that is water repellent and designed for high temperature applications where durability and compressive resistance are required. Common application areas for the RHT series of board insulation include storage tank insulations, drying/oven equipment, petro-chemical and power generating equipment protection where high temperature, fire resistance, and moisture resistance are concerns.

**Compliance and Performance:**

ASTM C 612	Mineral Fiber Block and Board Thermal Insulation	Type IVB, Complies
MEA Approval	New York City Approval	332-97-M
City Of Los Angeles Approval		RR 25444

**Fire Performance:**

ASTM E 136	Behaviour of Materials at 750°C (1382°F)	Non-Combustible
CAN4 S114	Test for Non-Combustibility	Non-Combustible
ASTM E 84(UL 723)	Surface Burning Characteristics	Flame Spread = 0
		Smoke Developed = 0
CAN/ULC S102	Surface Burning Characteristics	Flame Spread = 0
		Smoke Developed = 0

**Maximum Service Temperature:**

ASTM C 411	Hot Surface Performance	In Compliance with ASTM C612 @ 1200°F(650°C)
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**Dimensional Stability:**

ASTM C 356	Linear Shrinkage	<1% @ 1200°F (650°C)
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**Moisture Resistance:**

ASTM C 1104	Moisture Sorption	0.04%
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**Thermal Resistance:**

ASTM C 518 (C 177)	R-value/inch @ 75°F	4.2 hr.ft <sup>2</sup> .F/Btu***
	RSI value/25.4 mm @ 24°C	0.74 m <sup>2</sup> K/W

**Corrosive Resistance:**

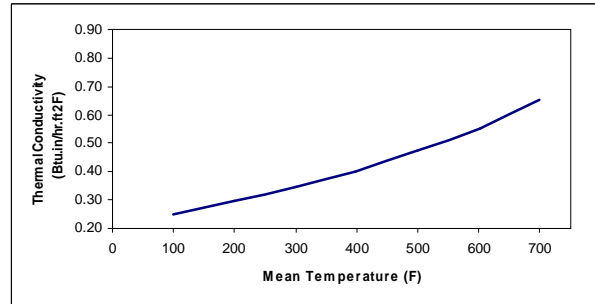
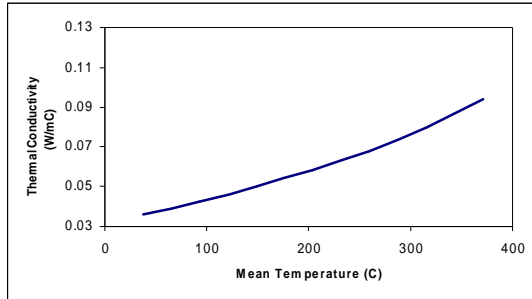
ASTM C 665	Corrosiveness to Steel	Pass
ASTM C 795 ****	Stainless Steel Stress Corrosion Specification as per Test Methods C871 and C692: U.S. Nuclear Regulatory Commission, Reg. Guide #1.36: U.S. Military Specifications MIL-I-24244 (all versions including B and C)	Conforms

**Acoustical Performance**

ASTM C 423							
CO-EFFICIENTS AT FREQUENCIES							
Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1.5"	0.17	0.58	1.06	1.07	1.00	0.99	0.95
2.0"	0.39	0.84	1.08	1.01	1.02	1.01	1.00
3.0"	0.68	0.92	1.08	1.03	1.03	1.03	1.00
4.0"	1.00	0.95	1.06	1.04	1.06	1.08	1.05

\*MASTER FORMAT 1995 EDITION \*\*MASTER FORMAT 2004 EDITION  
\*\*\* at the time of manufacturing

### Thermal Conductivity:



### Compressive Strength:

ASTM C 165 at 10%: 167 psf (8 kPa)  
 at 25%: 334 psf (16 kPa)

### Density:

ASTM C 612-93 - Nominal 8.0 lbs/ft<sup>3</sup> 128 kg/m<sup>3</sup>  
 ASTM C 612-00 - Actual  
 ≥ 1.5" thickness 5.8 lbs/ft<sup>3</sup> 93 kg/m<sup>3</sup>

### Dimensions:

24" (width) x 48" (length)  
 610 mm (width) x 1219 mm (length)

### Thickness:

Product thickness is available in 1" through 5" in 1/2" increments

### Dimensions:

36" (width) x 48" (length)  
 914 mm (width) x 1219 mm (length)

### Thickness:

Product thickness is available in 1.5", 2" and 3"

For additional sizes, please contact our customer service representatives.

### Facing:

This product can be faced with reinforced foil. **Please note that the facing will influence the product's service temperature range.**

### Key Application Qualifiers:

- Easy to install
- Service temperature 1200°F (650°C)
- Non-combustible
- Lightweight
- Can be fabricated/laminated
- Excellent thermal resistance
- Low moisture sorption
- Good compressive resistance
- Non-corrosive
- Chemically inert
- CFC and HCFC free product and process
- Made from natural & recycled materials

### Other ROXUL Products:

Please consult ROXUL for all your insulation needs. We have an extensive range of products for all applications from pipe insulation to commercial products to residential batts. ROXUL invites all inquiries and will act promptly to service all of your requirements.



\*\*\*\* "Provisions for lot testing may be required, consult manufacturer."

### Note:

As ROXUL Inc. has no control over installation design and workmanship, accessory materials or application conditions, ROXUL Inc. does not warranty the performance or results of any installation containing ROXUL Inc's. products. ROXUL Inc's. overall liability and the remedies available are limited by the general terms and conditions of sale. This warranty is in lieu of all other warranties and conditions expressed or implied, including the warranties of merchantability and fitness for a particular purpose.

**ROXUL INC.**  
[www.roxul.com](http://www.roxul.com)

**Milton, Ontario Tel: 905-878-8474**  
**Tel: 1-800-265-6878**

**Fax: 905-878-8077**  
**Fax: 1-800-991-0110**

Revised: March 30, 2010  
 Supersedes: March 10, 2009