

**General Product Information:**

ROXUL<sup>®</sup> 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 ROCKBOARD<sup>®</sup> 40 product is a semi-rigid mineral wool insulation board that is non-combustible, water repellent, fire resistant and sound absorbent. This product is a general all purpose board with low thermal conductivity. This board can also be fabricated to different dimensions while still retaining fire, water and thermal properties.

**Compliance and Performance:**

ASTM C 612 Mineral Fiber Block and Board Thermal Insulation Type IVA, Complies

**Fire Performance:**

|                    |  |                     |
|--------------------|--|---------------------|
| ASTM E 136         | Behaviour of Materials at 750°C (1382°F) | Non-Combustible     |
| CAN/ULC-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)

**Dimensional Stability:**

ASTM C 356 Linear Shrinkage 0.47 % @ 1200°F (650°C)

**Moisture Resistance:**

ASTM C 1104 Moisture Sorption 0.03 %

**Fungi Resistance:**

ASTM C 1338 Determination of Fungi Resistance Passed

**Thermal Resistance:**

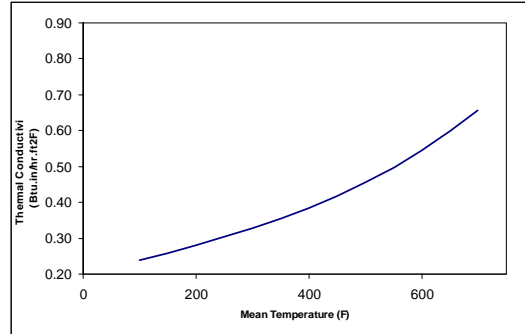
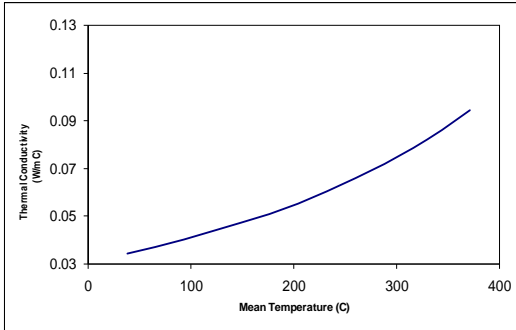
ASTM C 518 (C 177) R-value/inch @ 75°F 4.1 hr.ft<sup>2</sup>.F/Btu\*\*\*  
RSI value/25.4 mm @ 24°C 0.72 m<sup>2</sup>K/W

**Corrosive Resistance:**

|                 |   |          |
|-----------------|---|----------|
| ASTM C 665      | Corrosiveness to Steel  | Pass     |
| ASTM C 795 **** | Stainless Steel Stress Corrosion Specification as per Test Methods C 871 and C 692: U.S. Nuclear Regulatory Commission, Reg. Guide #1.36: U.S. Military Specifications MIL-I-24244 (all versions including B and C) | Conforms |

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

**Thermal Conductivity (k):**



**Acoustical Performance:**

**ASTM C 423  
CO-EFFICIENTS AT FREQUENCIES**

| Thickness | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | NRC  |
|-----------|--------|--------|--------|---------|---------|---------|------|
| 1.0"      | 0.07   | 0.32   | 0.77   | 1.04    | 1.05    | 1.05    | 0.80 |
| 1.5"      | 0.18   | 0.48   | 0.96   | 1.09    | 1.05    | 1.05    | 0.90 |
| 2.0"      | 0.26   | 0.68   | 1.12   | 1.10    | 1.03    | 1.04    | 1.00 |
| 3.0"      | 0.63   | 0.95   | 1.14   | 1.01    | 1.03    | 1.04    | 1.05 |
| 4.0"      | 1.03   | 1.07   | 1.12   | 1.04    | 1.07    | 1.08    | 1.10 |

**Air Erosion:**

UL 181 Maximum Air Velocity 1000 fpm (5.08 m/s)

**Compressive Strength:**

ASTM C 165 at 10% 90 psf (4.3 kPa)  
at 25% 225 psf (10.8 kPa)

**Density:**

ASTM C 612-00 – Actual 4.0 lb/ft<sup>3</sup> 64 kg/m<sup>3</sup>

**Dimensions:**

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

**Thickness:**

Product is available in 1" through 4" in half inch increments as well as 5" offering.  
For additional sizes, please contact our customer service representatives.

**Key Application Qualifiers:**

- Water repellent
- Durability
- Ease of application
- Fire resistance
- Excellent thermal resistance
- Low moisture sorption
- 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.

**Facing:**

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

\*\*\* "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.

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