

# ROXUL®

The Better Insulation™

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## Technical Product Information

# ROXUL


BLANKET INSULATION 15080\*  
PROCESS PIPING & EQUIPMENT  
INSULATION 40 42 00\*\*

### 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 ENERWRAP® 80 product is a flexible faced industrial blanket mineral wool insulation that is lightweight, water repellent, fire resistant and sound absorbent. ENERWRAP 80 is used to insulate surfaces such as pipes, vessels, boilers, furnaces, structural members and irregularly shaped mechanical equipment.

### Compliance and Performance:

ASTM C 553 Mineral Fiber Blanket Thermal Insulation  
City Of Los Angeles Approval

Type VII, Complies  
RR 25444

### Fire Performance:

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

Non-Combustible  
Non-Combustible  
Flame Spread - Passed  
Smoke Developed - Passed  
Flame Spread - Passed  
Smoke Developed - Passed

### 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

1.49% @ 1200°F (650°C)

### Moisture Resistance:

ASTM C 1104 Moisture Sorption

0.01%

### Thermal Resistance:

ASTM C 518 (C 177) R-value/inch @ 75°F  
RSI value/25.4 mm @ 24°C

4.2 hr.ft².F/Btu\*\*\*  
0.74 m²K/W

### Corrosive Resistance:

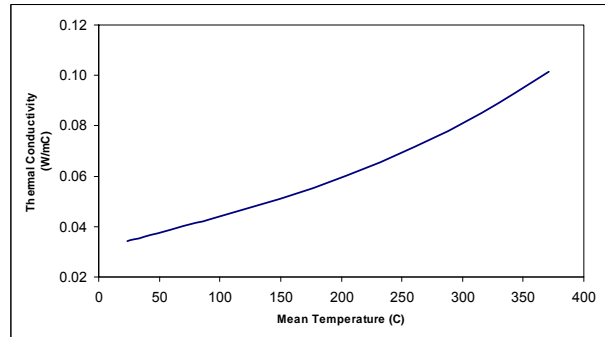
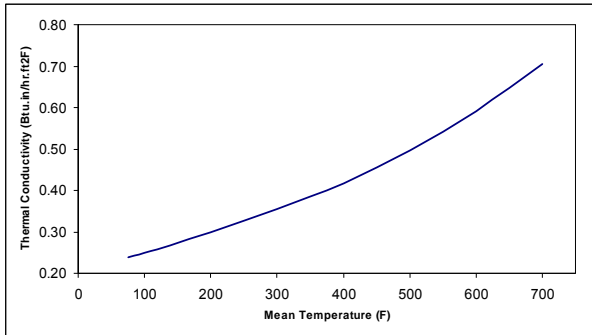
ASTM C 665 Corrosiveness to Steel  
ASTM C 795 \*\*\*\* Stainless Steel Stress Corrosion Specification as per Test  
Methods C871 and C692: U.S. Nuclear Regulatory Commission,  
Reg. Guide #1.36: U.S. Military Specifications MIL-I-24244 (all  
versions including B and C)

Pass  
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



**Density:**

ASTM C 553-92 – Nominal	8.0 lb/ft <sup>3</sup>	128 kg/m <sup>3</sup>
ASTM C 553-08 – Actual		
≥ 2" thickness	5.68 lb/ft <sup>3</sup>	91 kg/m <sup>3</sup>

**Available Facing:**

- Black fibrous glass scrim for single and multi-layer applications
- Reinforced foil facing for single layer applications as special order only (minimum order quantities required).

**Key Application Qualifiers:**

- Flexibility
- Non-combustibility
- Low moisture sorption
- Fire resistant
- Excellent thermal resistance
- Does not rot or sustain vermin
- Does not promote growth of fungi or mildew
- CFC and HCFC free product and process
- Made from natural and 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.

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