

#### 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 RHF™ series of products are non-combustible mineral wool insulation boards that are lightweight, water repellent and designed to allow for various application requirements. This series of products can be fabricated to different dimensions while still retaining all their fire, water and thermal values. A major application for the RHF series is pipe and tank wrap, where temperature demands as well as moisture resistance are critical.

#### Compliance and Performance:

CAN/CGSB 51.10-92 Mineral Fibre Board Thermal Insulation Type 2, Class 4

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

#### Fire Performance:

CAN4 S114	Test for Non-Combustibility	Non-Combustible
ASTM E 136	Behaviour of Materials at 750°C (1382°F)	Non-Combustible
CAN/ULC S102	Surface Burning Characteristics	Flame Spread = 0
		Smoke Developed = 0
ASTM E 84(UL 723)	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 < 2% @ 1200°F (650°C)

#### Moisture Resistance:

ASTM C 1104 Moisture Sorption < 0.01%

#### Corrosion Resistance:

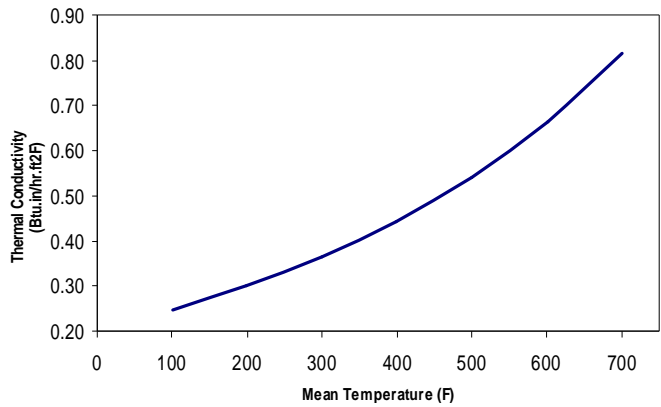
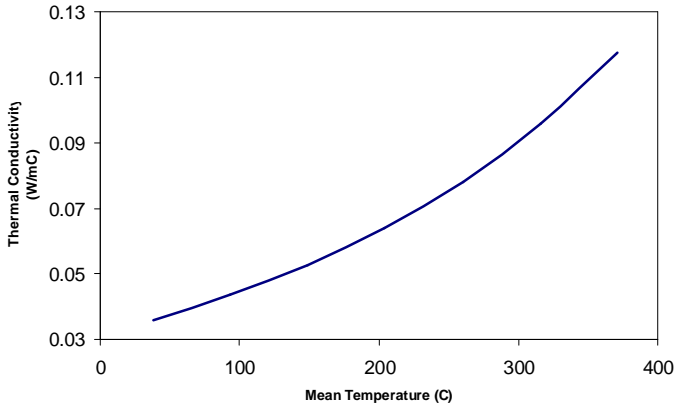
ASTM C 665	Corrosiveness to Steel	Passed
ASTM C 795 *	Stainless Steel Stress Corrosion Specification as per Test Methods C871 and C692: U.S. Nuclear Regulatory Commission, Reg. Guide #1.36: U.S. Military Specifications MIL-I-24244 (all versions including B and C)	Conforms

#### Thermal Performance:

ASTM C 518 (C 177)	R-value/inch @ 75°F	4.2 hr.ft².F/Btu
	RSI value/25.4 mm @ 24°C	0.75 m²K/W

# RHF™40

## Thermal Conductivity (k):



## Densities Available:

ASTM C 612 4 lbs/ft<sup>3</sup> (64 kg/m<sup>3</sup>)  
 ASTM C 303 56 kg/m<sup>3</sup> (3.5 lbs/ft<sup>3</sup>)

**Maximum Service Temperature:**  
 1200°F (650°C) ASTM C 411

## 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
- 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.

## Acoustical Performance:

Thickness	ASTM C 423						
	CO-EFFICIENTS AT FREQUENCIES						
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
1.0"	0.08	0.23	0.66	0.93	1.02	1.02	0.71
1.5"	0.15	0.47	0.98	1.06	1.02	1.02	0.90
2.0"	0.26	0.68	1.14	1.13	1.06	1.07	1.00
3.0"	0.62	1.03	1.20	1.10	1.08	1.10	1.10
4.0"	1.07	1.01	1.07	1.06	1.07	1.06	1.05

\* "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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