

## ProRox® SL 940<sup>NA</sup>



Old name: ROXUL RHT® 60

### Product description & application

ProRox® SL 940<sup>NA</sup> is a rigid mineral wool (stone wool) insulation board for high temperature industrial applications.

### Product properties in accordance with ASTM C612

	Performance								Norms
<b>Thermal conductivity</b>	T <sub>m</sub> [°F]	100	200	300	400	500	600	700	ASTM C177
	λ (BTU.in/hr.ft <sup>2</sup> .°F)	0.26	0.30	0.36	0.42	0.51	0.61	0.73	
	T <sub>m</sub> [°C]	38	93	150	204	260	316	371	
	λ (W/mK)	0.037	0.043	0.052	0.061	0.074	0.088	0.105	
<b>Maximum Service Temperature</b>	Hot Surface Performance: 1200 °F- (650 °C)								ASTM C411
	Non-Combustible								ASTM E136 / CAN4 S114
	Linear Shrinkage: ≤ 1 % at 1200 °F- (650 °C)								ASTM C356
<b>Reaction to fire</b>	Surface burning characteristics Flame spread index = 0 ; Smoke development index = 0								ASTM E84 (UL 723) CAN/ULC S102
<b>Density</b>	Actual Density = 4.4 lb/ft <sup>3</sup> - (70 kg/m <sup>3</sup> ) Nominal Density = 6.0 lb/ft <sup>3</sup>								ASTM C303
<b>Corrosion resistance **</b>	Stress Corrosion Cracking Tendency of Austenitic Stainless Steel = Passed Corrosion of Steel = Passed								ASTM C692 ASTM C665
<b>Chemical Analysis **</b>	[Salts: Cl <sup>-</sup> , F <sup>-</sup> , Na <sup>+</sup> , SiO <sub>4</sub> <sup>4-</sup> ] Results fall within acceptability limits of ASTM C795								ASTM C795 / ASTM C871
<b>Thermal Resistance</b>	R-Value / inch @ 75 °F RSI value / 25.4mm @ 24 °C				4.2 hr. ft <sup>2</sup> .°F/BTU 0.74 m <sup>2</sup> K/W				ASTM C518 (C177)
<b>Water Absorption/ Vapor Sorption</b>	< 1 % Weight								ASTM C1104
<b>Compliance</b>	Complies with Type: IVB								ASTM C612
	ROXUL offers a wide range of facings, dimensions and thicknesses. Please contact ROXUL for further information.								

Surface Burning Characteristics: UL Listed to Canadian standard CAN/ULC S102 ; UL Classified to UL 723



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

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.

©/TM: US - owner Rockwool International A/S used under license; Canada - owner Roxul Inc.



**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® 60 product is a non-combustible, semi-rigid mineral wool insulation board that is water repellent and designed for high temperature applications where durability and some flexibility are required. Common application areas for the RHT series of board insulation are 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	331-97-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 = 5
CAN/ULC S102	Surface Burning Characteristics	Flame Spread = 0
		Smoke Developed < 5

**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% @ 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	4.2 hr.ft².F/Btu***
	RSI value/25.4 mm @ 24°C	0.74 m²K/W

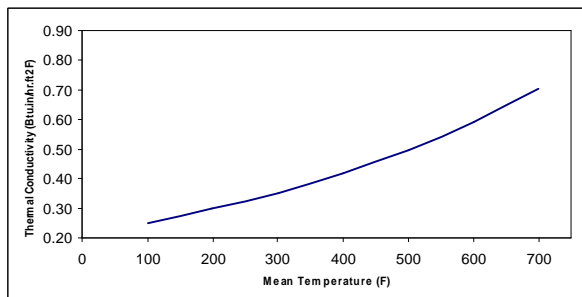
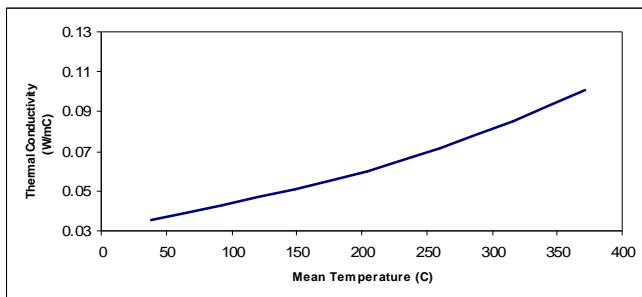
**Corrosive Resistance:**

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"	0.19	0.55	1.03	1.06	1.02	1.01	0.90
2.0"	0.26	0.71	1.14	1.09	1.04	1.03	1.00

### Thermal Conductivity:



### Compressive Strength:

ASTM C 165 at 10%: 104 psf (5 kPa)  
 at 25%: 230 psf (11 kPa)

### Density:

ASTM C 612-93 - Nominal 6.0 lbs/ft<sup>3</sup> 96 kg/m<sup>3</sup>  
 ASTM C 612-09 - Actual  
 ≥ 2" thickness 4.4 lbs/ft<sup>3</sup> 70 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 2.5" in 1/2" increments as well as 3", 4" and 5" offerings.

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: April 12, 2010  
 Supersedes: March 10, 2009