

## ProRox® SL 540<sup>NA</sup>



Old name: ROXUL RHT® 100

### Product description & application

ProRox® SL 540<sup>NA</sup> is a pressure resistance rigid mineral wool (stone wool) insulation board designed for high temperature applications subjected to light mechanical loads.

### 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]   | 0.25  | 0.29  | 0.35  | 0.41   | 0.47  | 0.54  | 0.66  |                                   |
|  | T <sub>m</sub> [°C]   | 38    | 93    | 149   | 204  | 280   | 316   | 371   |                                   |
|  | λ [W/mK]  | 0.035 | 0.041 | 0.049 | 0.057  | 0.066 | 0.076 | 0.092 |                                   |
| <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<br>Flame spread index = 0 ; Smoke development index = 0   |       |       |       |  |       |       |       | ASTM E84 (UL 723)<br>CAN/ULC S102 |
| <b>Density</b>   | Actual Density = 7.6 lb/ft <sup>3</sup> - (122 kg/m <sup>3</sup> )<br>Nominal Density = 10.0 lb/ft <sup>3</sup>                                     |       |       |       |  |       |       |       | ASTM C303                         |
| <b>Corrosion resistance **</b>   | Stress Corrosion Cracking Tendency of Austenitic Stainless Steel = Passed<br>Corrosion of Steel = Passed  |       |       |       |  |       |       |       | ASTM C692<br>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<br>RSI value / 25.4mm @ 24 °C  |       |       |       | 4.2 hr. ft <sup>2</sup> .°F/BTU<br>0.74 m <sup>2</sup> K/W |       |       |       | ASTM C518 (C177)                  |
| <b>Water Absorption/<br/>Vapor Sorption</b>  | < 1 % Weight  |       |       |       |  |       |       |       | ASTM C1104                        |
| <b>Compressive strength</b>  | ≥ 313psf (15kPa) @ 10% compression  |       |       |       |  |       |       |       | ASTM C165                         |
| <b>Compliance</b>  | Complies with Type: IVB   |       |       |       |  |       |       |       | ASTM C612                         |
| ROXUL offers a wide range of facings, dimensions and thicknesses.<br>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.

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