

ProRox® SL 960^{NA}

ProRox SL 960^{NA} is a rigid stone wool insulation board for high temperature industrial applications subject to light mechanical loads.



Application

The slab (board) is suitable for the thermal and acoustic insulation of high temperature industrial applications, such as boilers, vessels, columns and flue gas ducts.

Product properties in accordance with ASTM C612¹⁾

| Property | Performance | | | | | | | | Test standard |
|--|--|-------|-------|-------|-------|-------|-------|-------|--------------------------------------|
| | T _m (°F) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | |
| Thermal conductivity at mean temperature | λ (BTU.in/hr.ft ² .°F) | 0.24 | 0.29 | 0.35 | 0.41 | 0.47 | 0.56 | 0.68 | ASTM C177 |
| | T _m (°C) | 38 | 93 | 150 | 204 | 260 | 316 | 371 | |
| | λ (W/mK) | 0.035 | 0.042 | 0.050 | 0.059 | 0.068 | 0.081 | 0.098 | |
| Maximum use temperature | 1200°F (650°C) | | | | | | | | ASTM C411 / C447 |
| Linear shrinkage | ≤ 2% at 1200°F (650°C) | | | | | | | | ASTM C356 |
| Reaction to fire | Flame spread index = 0 Smoke development = 0 | | | | | | | | ASTM E84 UL723 / CAN ULC 102 |
| Corrosion resistance | Stress corrosion cracking tendency of austenitic stainless steel = passed Chemical analysis (Cl ⁻ , F ⁻ , Na ⁺ , SiO ₄ ⁴⁻): results fall within acceptability limits of ASTM C795 | | | | | | | | ASTM C692 / C795 ASTM C871 / C795 |
| Water absorption | ≤ 0.2 lb/ft ² (≤ 1.0 kg/m ²) | | | | | | | | EN 1609 / ISO 29767 |
| Vapor sorption | < 1% Weight | | | | | | | | ASTM C1104 |
| Density ²⁾ | Nominal density 8.0 lb/ft ³ (128 kg/m ³), Actual density 5.8 lb/ft ³ (93 kg/m ³) | | | | | | | | ASTM C303 |

1) All values are nominal values for standard industrial production. Standard industrial production tolerances applicable.

2) Density is not a performance criteria but is commonly referred to when specifying insulation. Actual density is the true density of the insulation and nominal density is the effective density of the insulation relative to a historic benchmark where the insulation contained 40% non-fibrous content also known as shot (ASTM C612-99).

Compliance

- ProRox SL 960 fully complies with the requirements as set by internationally recognized standards like ASTM C612 type IVB.
- ROCKWOOL stone wool insulation is made from volcanic rock and is not classified as a hazardous substance in accordance with Note Q, regulation (EC) No. 1272/2008.



Disclaimer

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