

ProRox® WM 960

with WR-Tech

ProRox WM 960 is a lightly bonded heavy-duty stone wool insulation mat stitched on galvanized wired mesh with galvanized wire. Stainless steel mesh and binding wire (SW), and/or reinforced aluminium foil (ALU) facing are available upon request. The wired mats are produced with an innovative water-repellent binder, known as WR-Tech™, to mitigate the risk of corrosion under insulation (CUI). WR-Tech ensures our stone wool maintains its superior water repellency even at elevated operating temperatures within the CUI range, while preserving its excellent thermal performance in use.



Application

The wired mat is suitable for the thermal and acoustic insulation of industrial installations exposed to the environment, such as outdoor industrial pipework, reactors and furnaces at petrochemical plants and refineries.

Product properties in accordance with ASTM C592-16



| Properties | Performance | | | | | | | | Norms |
|--|---|-------|-------|-------|-------|-------|-------|-------|------------------------|
| Thermal conductivity at mean temperature | T_m (°F) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | ASTM C177 |
| | λ (BTU.in/hr.ft ² .°F) | 0.26 | 0.29 | 0.34 | 0.40 | 0.47 | 0.54 | 0.61 | |
| | T_m (°C) | 38 | 93 | 149 | 204 | 260 | 316 | 371 | |
| | λ (W/mK) | 0,037 | 0,042 | 0,049 | 0,057 | 0,067 | 0,077 | 0,088 | |
| Maximum use temperature | 1,200 °F (649 °C) | | | | | | | | ASTM C447 |
| Linear shrinkage | ≤ 2% @ 1,200 °F (649 °C) | | | | | | | | ASTM C356 |
| Surface burning characteristics | Flame spread index ≤ 25; Smoke development index ≤ 50 | | | | | | | | ASTM E84 (UL723) |
| Reaction to fire | Non combustible | | | | | | | | IMO 2010 FTPC |
| Density | 6.2 lb/ft ³ (100 kg/m ³) | | | | | | | | ASTM C167 |
| Corrosion resistance | Evaluation on external stress corrosion cracking tendency of austenitic stainless steel = Pass | | | | | | | | ASTM C692 / ASTM C795 |
| | Chemical analysis for Cl ⁻ , Fl ⁻ , Na ⁺ , SiO ₄ ⁴⁻ within acceptable limits according ASTM C795 | | | | | | | | ASTM C871 / ASTM C795 |
| Water absorption | ≤ 0.04 lb/ft ² (≤ 0.2 kg/m ²) after 24hrs. Pre-heating at 482°F (250°C) | | | | | | | | EN 1609 / EN ISO 29767 |
| Water vapor sorption | < 1% weight | | | | | | | | ASTM C1104 |
| Influence on coating systems | Free form substances (e.g. silicone oil) that might impair surface wetting | | | | | | | | VW 3.10.7 |

Compliance

- ProRox WM 960 fully complies with the requirements as set by the internationally recognized standards like EN 14303, ASTM C592 Type III, ASTM C795, VDI 2055 and CINI 2.2.02.
- Above product declarations are also applicable for other available product variances and/or optional facings.
- 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.

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