

# ProRox® WM 950<sup>ES</sup>

ProRox WM 950<sup>ES</sup> is a lightly bonded stone wool insulation mat stitched on galvanized wire mesh with galvanized wire. Stainless steel mesh, stainless steel binding wire and/or reinforced aluminium foil facing are available upon request.



## Application

The wired mat is suitable for the thermal and acoustic insulation of industrial installations exposed to the environment when high-temperature resistance is demanded, such as industrial pipework, reactors and hot columns 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              |
|  | $\lambda$ (BTU.in/hr.ft <sup>2</sup> .°F)   | 0.26  | 0.30  | 0.35  | 0.42  | 0.51  | 0.60  | 0.70  |                        |
|  | $T_m$ (°C)  | 38    | 93    | 149   | 204   | 260   | 316   | 371   |                        |
|  | $\lambda$ (W/mK)  | 0.037 | 0.043 | 0.051 | 0.061 | 0.073 | 0.086 | 0.101 |                        |
| 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                                  | 5.0 lb/ft <sup>3</sup> (80 kg/m <sup>3</sup> )  |       |       |       |       |       |       |       | ASTM C167              |
| Corrosion resistance                     | Evaluation on external stress corrosion cracking tendency of austenitic stainless steel = Pass  |       |       |       |       |       |       |       | ASTM C692 / ASTM C795  |
|  | Chemical analysis for Cl <sup>-</sup> , Fl <sup>-</sup> , Na <sup>+</sup> , SiO <sub>4</sub> <sup>4-</sup> within acceptable limits according ASTM C795 |       |       |       |       |       |       |       | ASTM C871 / ASTM C795  |
| Water absorption                         | ≤ 0.2 lb/ft <sup>2</sup> (≤ 1 kg/m <sup>2</sup> )   |       |       |       |       |       |       |       | EN 1609 / EN ISO 29767 |
| Water vapor sorption                     | < 1% weight   |       |       |       |       |       |       |       | ASTM C1104             |

## Compliance

- ProRox WM 950<sup>ES</sup> wired mats fully comply with the requirements as set by internationally recognized standards like EN 14303, CINI 2.2.02, ASTM C592-16 Type III.
- Above product properties reflect only to ASTM standards. Compliance and Performance according to European (EN) standards can be found on our website. Please contact our sales representatives for an extended list of approvals & certifications.
- ROCKWOOL stone wool insulation is made from volcanic rock and complies with Note Q, regulation (EC) No. 1272/2008

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