ProRox® WM 950ES

ProRox WM 950ES is a lightly bonded stone wool insulation mat stitched on galvanized wire mesh with galvanized wire. Stainless steel mesh and binding wire (SW) is 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 and equipment at petrochemical plants and refineries.

Product properties

Properties	Performance												Norms
Thermal conductivity	T (°C)	50	100	150	200	250	300	350	400	500	600	640	EN 12667
	λ (W/mK)	0,039	0,045	0,053	0,062	0,072	0,084	0,097	0,112	0,146	0,192	0,213	
Maximum Service Temperature	640°C												EN 14706
Reaction to fire	Euroclass A1												EN 13501-1
Density	80 kg/m³												EN 1602
Corrosion resistance	Evaluation on external stress corrosion cracking tendency of austenitic stainless steel = Pass Chemical analysis for Cl- , Fl- , Na+ , SiO_4^{4-} within acceptable limits according ASTM C795 Trace quantity of water leachable chloride ions: ≤ 10 ppm on request												ASTM C692 / ASTM C795 ASTM C871 / ASTM C795 EN 13468 / ISO 12624
Water absorption	≤ 0,2 kg/m² ≤ 0,2 kg/m² (After 24 hrs. pre-heating at 250°C)												EN 1609 EN ISO 29767
Water vapour diffusion resistance	μ = 1												EN 14303
EN 14303 Designation code*	MW EN 14303-T2-ST(+)640-WS1												EN 14303

* Thickness class declared under the load of 1000 Pa

Compliance

- ProRox WM 950ES fully complies with the requirements as set by the internationally recognized standards like EN 14303.

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