

ProRox® WM 970

with WR-Tech

ProRox WM 970 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 subjected to vibrations and exposed to the environment, such as outdoor industrial pipework, reactors and furnaces.

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	0.39	0.44	0.51	0.58	
	T_m (°C)	38	93	149	204	260	316	371	
	λ (W/mK)	0.037	0.042	0.049	0.056	0.064	0.074	0.084	
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	8 lb/ft ³ (128 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 970 fully complies with the requirements as set by the internationally recognized standards like EN 14303, ASTM C592 Type III, ASTM C795 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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