

TECH Wired Mat MT 5.0 Alu1/X/X-X



Premium performance robust industry stone mineral wool wired mats for medium-high temperatures

TECH Wired Mat MT 5.0 is the premium thermal performance stone mineral wool mat stitched with galvanized wire on hexagonal galvanized wire mesh for flexible installation on uneven structures such as big diameter pipes, tanks and vessels, exhaust ducts and stacks with a maximum service temperature of up to 620 °C. TECH Wired Mat MT 5.0 is produced in AS Quality (CL- ≤ 10 ppm) for usage when in contact with austenitic steel structures.

On request with stainless steel wire (X) or stainless steel wire and wire mesh (X-X) and reinforced aluminium facing (Alu1).

On request available also in „EX“ quality almost without organic content for use in explosion risk areas when in contact with liquid oxygene such as in cold boxes, air separation units etc. in line with application standards as AGI Q 118 and specifications of industrial gas providers e.g. Linde, Air Liquide, Air Products.

Thermal Efficiency Indicator

8. extra plus

7. extra

6. premium plus

5. premium

4. standard plus

3. standard

2. classic plus

1. classic

5.



ENERGY EFFICIENCY

Premium thermal insulation performance at medium to higher service temperatures up to 620°C



HIGH SERVICE TEMPERATURES

Especially designed for high service temperatures up to 620°C



SOUND INSULATION

The ability of mineral wool to act as a spring results in reducing vibration and noise emissions in industrial processes



EXPLOSION RISK SOLUTION

Especially designed for use in explosion risk areas when in contact with liquid oxygene



FIRE REACTION

Non-combustible, Euroclass A1 for effective fire protection on industry sites

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CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES								STANDARD
Thermal conductivity	T	[°C]	50	100	150	200	300	400	500	600	EN 12667 EN ISO 13787 ASTM C177
	λ	[W/(m·K)]	0.040	0.046	0.052	0.061	0.083	0.110	0.145	0.190	
Thermal behaviour	T	[°C]	Maximum service temperature 620 (under 500 Pa) Maximum service temperature 680								EN 14706 ASTM C447/C411

CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES								STANDARD
Specific thermal capacity	c	kJ/(kg·K)	1.03								ISO 10456
Reaction to fire	-	-	Non combustible; Euroclass A1 Fire Spread Index = 0; Smoke Development Index < 20								EN 13501-1 ASTM E84
Water behaviour	WS	kg/m ²	No short term water absorption by partial immersion (WS1 ≤ 1 kg/m ²)								EN ISO 29767
Chemical behaviour	-	-	AS-quality (Leachable Chloride ≤10ppm) Leachable chloride content less than 10 ppm (CL10) Do not contribute to corrosion of stainless steel								AGI Q 132 EN 13468 ASTM C795/871
Application field	-	-	Product for use in technical applications, such as big diameter pipes, tanks and vessels, boilers, exhaust ducts and stacks								EN 14303
Material	-	-	Stone mineral wool, stitched on metallic mesh with either galvanized or austenitic stainless steel wire With quality marks EUCEB and RAL by the Gütegemeinschaft Mineralwolle e. V., unrisky regarding health according to German decree on dangerous substances, decree on prohibition of chemicals and to regulation EC No 1272/2008 Note Q								CINI 2.2.02
Facing	-	-	On request: Reinforced aluminium facing (Alu1)								-
Miscellaneous	-	-	Insulating material identification number: 10.01.02.40.10 Designation code : MW-EN 14303-T2-ST(+)620-WS1-CL10								AGI Q 132 EN 14303
Quality management	-	-	CE-marked according to EN 14303 Quality control according to VDI 2055 ISOVER is certified according to EN ISO 9001 and EN ISO 14001								EN 14303 VDI 2055 EN ISO 9001 EN ISO 14001

DELIVERY FORM: STANDARD DIMENSIONS / PACKAGING INFORMATION*					
THICKNESS** D [MM]	WIDTH B [MM]	LENGTH [MM]	M ² /ROLL	M ² /PALLET	ROLLS/PALLET
100	500	3,000	1.5	750.00	30
120	500	3,000	1.5	750.00	30
30	500	8,000	4.0	2000.00	40
40	500	8,000	4.0	2000.00	30
50	500	5,000	2.5	1250.00	40
60	500	5,000	2.5	1250.00	30
70	500	5,000	2.5	1250.00	30
80	500	4,000	2.0	1000.00	30
90	500	4,000	2.0	1000.00	30

* All dimensions require minimum order quantities / other dimensions on request.

** Under a load of 1,000 Pa.



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The technical information corresponds to our present state of knowledge and experience at the date of printing (see imprint). But no legal guarantee can be given, unless it has been explicitly agreed. The state of experience and knowledge is developing continuously. Please see to it that you always use the latest edition of this information. The described product applications do not take special circumstances in consideration. Please verify whether our products are appropriate for the concrete application. For further information please contact our Isover sales offices. We deliver only according to our terms of trade and terms of delivery.

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