



TECH Wired Mat MT 4.1 Alu1/X/X-X

Standard-Plus performance flexible stone mineral wool wired mats

TECH Wired Mat MT 4.1 is the standard-weight 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, boilers, exhaust ducts and stacks with a maximum service temperature of up to 640 °C.

TECH Wired Mat MT 4.1 is available in AS Quality (CL- ≤ 10 ppm) when in contact with austenitic steel structures. On request available with stainless steel wire (X) or stainless steel wire and wire mesh (X-X) and reinforced aluminium facing (Alu1).



HIGH SERVICE TEMPERATURES

Especially designed for high service temperatures up to 640°C



THERMAL INSULATION

Standard-Plus thermal insulation performance for service temperatures up to 640°C



SOUND INSULATION

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



FIRE REACTION

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

Thermal Efficiency Indicator

8. extra plus

7. extra

6. premium plus

5. premium

4. standard plus

4.

3. standard

2. classic plus

1. classic

TECH Wired Mat MT 4.1 Alu1/X/X-X



CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES							STANDARD
Thermal conductivity	T	[°C]	50	100	200	300	400	500	600	EN 12667 EN ISO 13787 ASTM C177
	λ	[W/(m·K)]	0.039	0.045	0.062	0.084	0.112	0.146	0.192	
Thermal behaviour	T	[°C]	Maximum service temperature 640 (under 500 Pa) Maximum service temperature 700							EN 14706 C447/C411

CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES							THICKNESS [MM]	STANDARD
Sound absorption*	α_p	Hz	α_w	125	250	500	1,000	2,000	4,000	-	EN ISO 11654 EN ISO 354
		-	1.00	0.28	0.93	1.09	1.07	1.08		50	
		-	-	0.72	1.07	1.03	1.11	1.06	1.09	100	
Airflow resistivity*	AFR (σ)	kPa·s/m ²	> 25								EN ISO 9053-1

* These values proceed from tests conducted in laboratory under certain given conditions. Real life conditions may differ due to various ambient and operational factors. These values are therefore representative and should only be used as a guide for estimation purposes. ISOVER takes no responsibility in the case of not achieving the required acoustical performance.

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 ($WS_1 \leq 1 \text{ kg/m}^2$)							EN ISO 29767
Chemical behaviour	-	-	Do not contribute to corrosion of stainless steel On request: Leachable chloride content less than 10 ppm (CL10)							ASTM C795/871 EN 13468
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, unrisky regarding health according to regulation EC No 1272/2008 Note Q							CINI 2.2.02
Facing	-	-	On request: Reinforced aluminium facing (Alu1)							-
Miscellaneous	-	-	Designation code : MW-EN 14303-T2-ST(+)640-WS1							EN 14303
Quality management	-	-	CE-marked according to EN 14303 ISOVER is certified according to EN ISO 9001 and EN ISO 14001							EN 14303 EN ISO 9001 EN ISO 14001
Delivery form	-	-	Please contact your local ISOVER dealer All dimensions require minimum order quantities Standard width: 500 mm 600 mm 1,000 mm Standard thickness range: 30 mm until 120 mm Other dimensions on request							-



www.isover-technical-insulation.com

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.

SAINT-GOBAIN ISOVER · Tour Saint-Gobain 12 place de l'Iris 92096 La Défense cedex - France

NOV-2022

