



## U TECH Pipe Section MT 4.0

### The **ULTIMATE** solution for industry pipe insulation

U TECH Pipe Section MT 4.0 is the efficient and light alternative for the insulation of industry process pipelines for standard pipe diameters from 15 mm to 356 mm (1/2" to 14"). The **ULTIMATE** mineral wool preformed concentric-rolled pipe section is equipped with a pre-slit to facilitate the opening and fitting over the pipes.

U TECH Pipe Section MT 4.0 are light and easy to handle. With a length of 1.2 m, installation time on straight pipes and thermal bridges thru joints can be reduced by 20 %.

U TECH Pipe Section MT 4.0 can be used for service temperatures of up to 660 °C.

#### Thermal Efficiency Indicator

8. extra plus

7. extra

6. premium plus

5. premium

4. standard plus

3. standard

2. classic plus

1. classic

4.



#### HIGH SERVICE TEMPERATURES

Especially designed for high service temperatures up to 660°C



#### COST EFFECTIVE SOLUTION

Standard-Plus thermal performance combined with lightweight provides installation time saving and less heat loss costs



#### THERMAL INSULATION

Standard-Plus thermal performance for service temperatures up to 660°C with up to 35% better efficiency than standard solutions



#### FAST INSTALLATION

By cut-to-fit dimension, it reduces weight per piece and can be handled by one person only. No need of spacers or similar.



#### NUCLEAR PLANT QUALITY

Certified for use in nuclear applications



#### 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]	40	50	100	150	200	300	ASTM C335 ISO 8497 EN ISO 13787
	$\lambda$	[W/(m·K)]	0.035	0.037	0.043	0.052	0.062	0.092	
Thermal behaviour	T	[°C]	Maximum service temperature 660 (under 500 Pa) Maximum service temperature 700						EN 14707 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 <sub>L</sub> Fire Spread Index = 0; Smoke Development Index < 20 IMO-Resolution MSC.61(67); IMO MSC/Circ. 1120						EN 13501-1 ASTM E84
Water behaviour	WS	kg/m <sup>2</sup>	No short term water absorption by partial immersion (WS1 ≤ 1 kg/m <sup>2</sup> )						EN 13472
Chemical behaviour	-	-	AS-quality (Leachable Chloride ≤ 10ppm) Leachable chloride content less than 10 ppm (CL10) Do not contribute to corrosion of stainless steel Especially designed and certified for use in nuclear applications						AGI Q132 EN 13468 ASTM C795/871 PMUC
Application field	-	-	Product for use in technical applications, such as big diameter pipes, exhaust ducts and stacks, with need for: thermal and/or acoustic insulation with high performances especially at high temperatures. Certified for use in nuclear applications. Especially designed and certified for use in nuclear applications.						EN 14303 PMUC 09-0075
Linear Shrinkage	-	%	<2% (at 700°C)						ASTM C356
Material	-	-	ULTIMATE mineral wool, preformed concentric in shape of pipe section. 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 2.2.03
Miscellaneous	-	-	Insulating material identification number: 10.04.03.99.99 Designation code : MW-EN14303-T8-ST(+)-660-WS1-CL10 (outside pipe $\varnothing \leq 150$ mm) Designation code : MW-EN14303-T9-ST(+)-660-WS1-CL10 (outside pipe $\varnothing > 150$ mm)						AGI Q 132 EN14303
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 EN ISO 9001 EN ISO 14001

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## DELIVERY FORM: STANDARD DIMENSIONS / PACKAGING INFORMATION\*

THICK- NESS D [MM]	DIAMETER Ø [MM]																						
	15	18	22	28	35	42	48	54	57	60	64	70	76	89	102	108	114	133	140	159	168	219	273
100													1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
120																				1.2	1.2	1.2	
20	57.6	50.4	43.2	36.0	30.0	24.0	19.2	28.8	28.8	27.6	24.0			16.8									
30	30.0	28.8	24.0	19.2	19.2	14.4	24.0	19.2	19.2	19.2	18.0	14.4	14.4	10.8	9.6	9.6	7.2	6.0	6.0	4.8	4.8	1.2	1.2
40		28.8	14.4	19.2	10.8	10.8	9.6	10.8	10.8	10.8	10.8	10.8	10.8	9.6	7.2	7.2	6.0	4.8	4.8	4.8	3.6	1.2	1.2
50			18.0	14.4	10.8	10.8	10.8	10.8	10.8	9.6	9.6	9.6	4.8	4.8	6.0	6.0	4.8	4.8	3.6	3.6	1.2	1.2	1.2
60			10.8	10.8	10.8	9.6	9.6	4.8	4.8	4.8	4.8	4.8	6.0	4.8	4.8	4.8	4.8	3.6	1.2	1.2	1.2	1.2	1.2
70										4.8	4.8	4.8	4.8	4.8	3.6	3.6	3.6	1.2	1.2	1.2	1.2	1.2	1.2
80						6.0	4.8					4.8	4.8	3.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
90														1.2									

\* The information refers to linear meters / pack.  
All dimensions require minimum order quantities / other dimensions on request.



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