



# U Protect Pipe Section Alu2 - Marine

## Marine & Offshore Insulation

ULTIMATE mineral wool provides a unique high-performance profile: It combines safety, comfort and ease of handling



### FIRE RESISTANCE

ULTIMATE provides effective fire resistance, but also very good performance in reaction to fire



### THERMAL INSULATION

Excellent thermal insulation combined with unique efficiency



### SOUND ABSORPTION

Improved acoustic comfort due to its excellent sound absorption and sound insulation properties



### LIGHTWEIGHT

Increase insulation - reduce weight  
ULTIMATE combines high fire & thermal performance with very low weight



### FAST INSTALLATION

ISOVER insulation materials are designed for ease and speed of installation

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CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES						STANDARD
Thermal conductivity	T	[°C]	10	50	100	150	200	300	EN ISO 13787 EN ISO 849
	$\lambda$	[W/(m·K)]	0.032	0.037	0.043	0.052	0.062	0.092	
	T	[°C]	< 620 °C (tape and alu-facing 80 °C)						EN 14707
	-		> 1,000 °C						-

CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES						STANDARD
Thermal behaviour	-	[°C]	Maximum service temperature: 660 °C. Insulation layer must be designed so that the coated side is stressed by a maximal temperature of 100 °C. From 150 °C on the binder begins to volatilise.						AGI Q 132
Specific thermal capacity	c	kJ/(kg·K)	1.00						-
Reaction to fire	-	-	Non-combustible, Euroclass A <sub>2</sub> -s1,d0 Melting point $\geq$ 1000°C. Certified for EI90 fire constructions. Non-combustible according to IMO-Resolution MSC.61(67). Homologated for shipbuilding EC Type Examine Certificate N° 114.498						EN ISO 13501 DIN 4102 IMO
Chemical behaviour	-	-	Hydrophobic Silicone-free. Sulphide-free						AGI Q 132
Application field	-	-	For simple and timesaving insulation of pipes of all kinds especially for heating and industrial water lines, distant heating systems as well as pipe lines in construction of power plants and chemical plants						-
Material	-	-	Mineral wool, with RAL-Mark of the Gütegemeinschaft Mineralwolle e.V., exonerated according to German decree on dangerous substances, to German decree on prohibition of chemicals and to guideline EU 97/69 Nota Q.						-
Facing	-	-	Pipe sections are coated outside with high-rupture aluminium foil reinforced with a grid Diffusion equivalent air layer thickness sd [m] $\geq$ 200						-
Miscellaneous	-	-	Insulating material identification number: 10.04.03.66.99 EnEV Certificate, registration number 6V099 Z-23.14-1589 CE-marking designation code: T8-ST(+)-620-WS1-MV2-CL10 T9-ST(+)-620-WS1-MV2-CL10						EnEV CE
Quality management	-	-	CE-marked according to EN 14303 Quality control according to VDI 2055 ISOVER is certified according to DIN EN ISO 9001 and DIN EN ISO 14001						EN 14303 VDI 2055 EN ISO 9001 EN ISO 14001
Type approval certificates			EC-Type Examination MED-B (Non Combustibility): 114498-04 exp. 12/09/2024 EC-Type Examination MED-B (Low Flame Spread): 118147-06 exp. 24/01/2029 QAS MED-D Certificate: SEE0736Q0000108 exp. 19/05/2027						

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

THICKNESS D [MM]	LENGTH [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	1,200													•	•	•	•	•	•	•	•	•	•	•
120	1,200													•				•		•	•	•	•	•
20	1,200	•		•	•	•	•	•	•	•	•	•	•	•	•									
25	1,200	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•						
30	1,200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40	1,200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
50	1,200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
60	1,200	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
70	1,200					•	•					•		•	•	•	•	•	•	•	•	•	•	•
80	1,200									•	•	•		•	•	•	•	•	•	•	•	•	•	•

\*The information refers to linear meters / pack.  
All dimensions require minimum order quantities / pipe section with slit on one side, length 1,200 mm / other dimensions on request.



### [www.isover-technical-insulation.com](http://www.isover-technical-insulation.com)

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