

U Protect Pipe section Alu2



Marina and 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]	50	100	150	200	300	EN 12667
	λ	[W/(m·K)]	0,037	0,043	0,050	0,062	0,089	
Maximum service temperature	T	[°C]	620 °C					EN 14706

CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES	STANDARD
Thermal behaviour	T	°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	ISO 10456
Reaction to fire	-	-	Non-combustible, Euroclass A ₂ -s1,d0 Melting point $\geq 1000^{\circ}\text{C}$. 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 13501 IMO DIN 4102-17
Chemical behaviour	-	-	Hydrophobic. Sulphide-free. Silicone free.	AGI Q 132
Application field	-	-	Product for use in technical applications, providing simple and time-saving insulation for all types of pipes, especially for industrial water and heat lines.	-
Material	-	-	Mineral wool 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.	-
Facing	-	-	Pipe sections are coated outside with high-rupture aluminium foil reinforced with a grid. Diffusion equivalent air layer thickness s_d [m] ≥ 200	-
Miscellaneous	-	-	Insulation 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

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DELIVERY FORM: STANDARD DIMENSIONS / PACKAGING INFORMATION*

Thickness d (mm)	Diameter Inside Cups (mm)	Length l (m)	ml/box	ml/pallet
20	15	1.20	57.60	1036.80
20	18	1.20	50.40	902.70
20	22	1.20	43.20	777.60
20	28	1.20	36.00	648.00
20	35	1.20	30.00	540.00
20	42	1.20	24.00	432.00
20	48	1.20	19.20	345.60
20	54	1.20	28.80	345.60
20	60	1.20	27.60	331.20
20	89	1.20	16.80	201.60
30	15	1.20	30.00	540.00
30	18	1.20	28.80	518.40
30	22	1.20	24.00	432.00
30	28	1.20	19.20	345.60
30	35	1.20	19.20	345.60
30	42	1.20	14.40	259.20
30	48	1.20	24.00	288.00
30	54	1.20	19.20	230.40
30	60	1.20	19.20	230.40
30	89	1.20	10.80	129.60
30	114	1.20	7.20	86.40
30	140	1.20	6.00	72.00
30	168	1.20	4.80	57.60
50	15	1.20	10.80	194.40
50	18	1.20	19.20	230.40
50	22	1.20	18.00	216.00
50	28	1.20	14.40	172.80
50	35	1.20	10.80	129.60
50	42	1.20	10.80	129.60
50	48	1.20	10.80	129.60
50	54	1.20	10.80	129.60
50	60	1.20	9.60	115.20
50	89	1.20	4.80	86.40
50	114	1.20	4.80	57.60
50	140	1.20	3.60	43.20
50	168	1.20	1.20	48.00

* Other dimensions on request.



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This data sheet was completed on the date indicated on the right-hand side and was done with ISOVER's knowledge and experience at that time. However, it does not offer any legal guarantee, unless it has been expressly agreed. Bearing in mind that our knowledge and developments of building solutions and products are continuously evolving, ensure that when you use this data sheet, it is the latest version. The description of the product applications does not take into account the special circumstances that may arise for a specific case. Please check that this product is the appropriate one for the application you are considering. For more detailed information, contact our network of ISOVER branches.

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