



U Protect Pipe Section Alu2

Marine & Offshore Insulation

U Protect Pipe Section Alu2

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



Effective Fire Protection

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



Excellent Thermal insulation

Excellent thermal insulation combined with unique efficiency.



Optimal acoustic performance

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



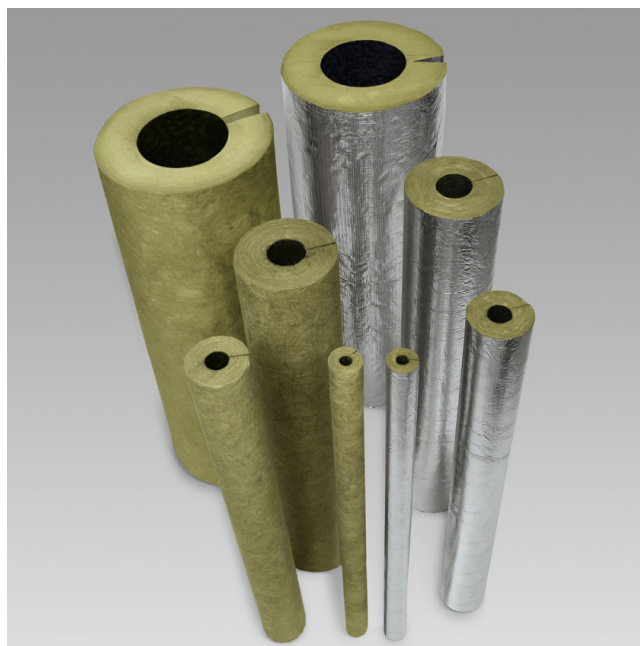
Light weight

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 measured values					Standard
Application fields	-	-	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.					-
Thermal conductivities	T	[°C]	50	100	150	200	300	EN 12667
	λ _{N,R}	[W/(m•K)]	0,037	0,043	0,052	0,062	0,089	
Maximum service temperature	-	[°C]	620°C					EN 14706
Behaviour in fire	-	-	Non-combustible, Euroclass A2L-s1,d0 Melting point ≥ 1000°C. Certified for EI90 fire constructions. Non-combustible according to IMO-Resolution MSC.61(67). Homologated for shipbuilding EC Type Examine Certificate Nr.114.498					EN ISO 13501 DIN 4102 IMO
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					-
Chemical behaviour	-	-	Hydrophobic. Silicone-free. Sulphide-free.					AGI Q 132
Facing	-	-	Pipe sections are coated outside with high-rupture aluminium foil reinforced with a grid. Diffusion equivalent air layer thickness sd [m] ≥ 200.					-
Quality management	-	-	CE-marked according to EN 14303. Quality control according to VDI 2055. Isover has been certified according EN ISO 9001.					EN ISO 14303 VDI 2055 EN ISO 9001
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

Delivery form																						
Thickness (mm)	Outside pipe diameter in mm																					
	15	18	22	28	35	42	45	48	54	57	60	64	70	76	89	102	108	114	133	140	159	
20	57,6	50,4	43,2	36,0	30,0	24,0	19,2	19,2	28,8	28,8	27,6	24,0	19,2	19,2	16,8							
30	30,0	28,8	24,0	19,2	19,2	14,4	24,0	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	
40			14,4	19,2	10,8	10,8	18,0	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	
50					10,8	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	
60										4,8	4,8	4,8	4,8	6,0	4,8	4,8	4,8	4,8	3,6	1,2	1,2	
70												4,8	4,8	4,8	4,8	3,6	3,6	3,6	1,2	1,2	1,2	
80														4,8	3,6	1,2	1,2	1,2	1,2	1,2	1,2	
100															1,2	1,2	1,2	1,2	1,2	1,2	1,2	
120																					1,2	
Pipe section with slit on one side, length 1200 mm. Further dimensions on inquiry. The information shows the running meters per packaging unit, e. g.: 4,8 = 4 pipe sections per packaging unit.																						

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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.

ISOVER
SAINT-GOBAIN