



U SeaProtect Roll Alu1

Rolls aluminium faced - density from 13 to 56 kg/m³

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



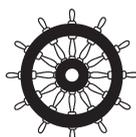
Optimal acoustic performance

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



ISOVER
SAINT-GOBAIN

U SeaProtect Roll Alu1



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density from 13 to 56 kg/m³**

Characteristic	Symbol	Unit	Quantities and measured values							Standard
Application fields	-	-	Thermal insulation, acoustic insulation and fire protection constructions in shipbuilding							-
Material	-	-	Mineral wool with quality mark RAL by the Gütegemeinschaft Mineralwolle e.V., unriskey regarding health according to German decree on dangerous substances, decree on prohibition of chemicals and to Regulation (EC) N°1272/2008							-
Thermal conductivity	T	[°C]	10	50	100	150	200	300	400	EN 12 667
U SP Roll Alu1 13	$\lambda_{N,P}$	[W/(m•K)]	0.039	0.047	0.063	0.080	0.108	-	-	
U SP Roll Alu1 24	$\lambda_{N,P}$	[W/(m•K)]	0.034	0.040	0.049	0.062	0.080	0.124	-	
U SP Roll Alu1 36	$\lambda_{N,P}$	[W/(m•K)]	0.032	0.037	0.045	0.055	0.069	0.104	0.153	
U SP Roll Alu1 50	$\lambda_{N,P}$	[W/(m•K)]	0.031	0.036	0.042	0.050	0.059	0.080	0.109	
U SP Roll Alu1 56	$\lambda_{N,P}$	[W/(m•K)]	0.031	0.036	0.041	0.049	0.057	0.078	0.104	
Thermal behaviour	-	[°C]	Exposure to temperature until 400 °C (depends on density) is possible From 150 °C on the binder starts to volatilise							AGI Q 132
Behaviour in fire	-	-	Melting point according to DIN 4102, part 17: ≥ 1000 °C Non combustible according to IMO-Resolution Homologated for shipbuilding according to EC Type Examination Certificates Nr.: MED-B+D Certificate = visit our website							DIN 4102-17 IMO-Resolution MSC.307(88)- (FTP-Code 2010)
Specific thermal capacity	c	[kJ/(kg•K)]	~ 1.03							ISO 10456
Water vapour diffusion resistance factor	μ	-	~ 1.0							ISO 10456
Air flow resistivity	σ	[KPa•s/m ²]	U SeaPortect Roll Alu1 13: ≥ 5 U SeaProtect Roll Alu1 24: 15			U SeaProtect Roll Alu1 36: 30 U SeaProtect Roll Alu1 56: 50				DIN EN 29053
Sound absorption value	α_w	-	U SeaProtect Roll Alu1 24 50 / 100 mm: 1,00 U SeaProtect Roll Alu1 36 70 mm: 1,00 U SeaProtect Roll Alu1 50 60 mm: 1,00 U SeaProtect Roll Alu1 56 50 / 60 mm: 1,00							-
Chemical behaviour	-	-	Sulphide free							-
Facing	-	-	U SeaProtect Rolls Alu1 are one-sided faced with reinforced aluminum foil							-
Miscellaneous	-	-	ISOVER is certified according to DIN EN ISO 9001 and DIN EN ISO 14001							DIN EN ISO 9001 DIN EN ISO 14001 EN ISO 50001

Delivery form: Standard dimensions / packaging information*

	U SP Roll Alu1 13	U SP Roll Alu1 24	U SP Roll Alu1 36	U SP Roll Alu1 50	U SP Roll Alu1 56
Width (mm)	1200	1200	1200	1200	1200
Thickness (mm)	50, 60, 80, 100, 120	30, 40, 50, 60, 80, 100, 120	70	60	30, 50, 60

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.

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