



VIZYON INNOVATIVE INSULATION LTD. DETAILED PRODUCT CATALOG

MARINE - DEFENSE INDUSTRY - OFFSHORE - RAILWAYS - TRANSPORT



New generation Sound & Vibration control, Condensation and
Corrosion control, High temperature & Cryogenic Thermal
Insulation and Passive Fire Protection solutions

Vizyon Innovative Insulation
Energy and Engineering Ltd. Corp.
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Tel : +90 216 446 00 44

ABOUT US

Vizyon Innovative Insulation Ltd.Co. was established in 2015 to provide up-to-date innovative solutions suitable for any appropriate insulation needs. It provides services in the field of thermal insulation, noise and vibration damping, high heat and cryogenic insulation as well as fire insulation with the most advanced technology products, services and design.

We offer the most permanent and rational solutions in the marine, defense, automotive and manufacturing industry. We serve the marine industry in every stage of noise and vibration insulation including design and completion. Product range and design services are both included in our wide working band.

We carry out our work by offering permanent and effective solutions to each problem or need. For us, thermal insulation, sound insulation, high thermal insulation, cryogenic insulation, fire insulation, corrosion protection and condensation control are items that require separate solutions, separate products with separate tailored designs. Design, procurement, application, testing of services and maximum performance are all within our field of expertise. Our main and utmost goal is to be advantageous to you and our country with our work ethic and principles based on quality and satisfaction. As Vizyon Innovative Insulation, we take part in the whole system. We design the most permanent and effective solution with high efficiency. Costs and system permanence are equally important to us. In the products and services we offer, we focus on solving the needs of our customers quickly and effectively, regardless of the scope of the business.

We offer our innovative solutions in various developing sector in Turkey and we are ready to do so world wide. We have served in the same purpose and direction since the day we were founded. We have completed critical projects with the high satisfaction of our customers. In our R&D center, we develop high-level products such as fire protection and high heat insulation



NOISE CONTROL PRODUCT LINE

Pyrotek



DECIDAMP SP 150

This product is developed by a special polymer technology. It is a light, non-toxic, structural damping equipment that can be used in every area, where the noise can affect the structure, comfort and function. Also, It is a MED approved and viscoelastic, structure based damping product approved by IMO for use up to 10 mm thickness for vessels.

www.vizyonendustriyelyalitim.com/decidamp-sp-150 



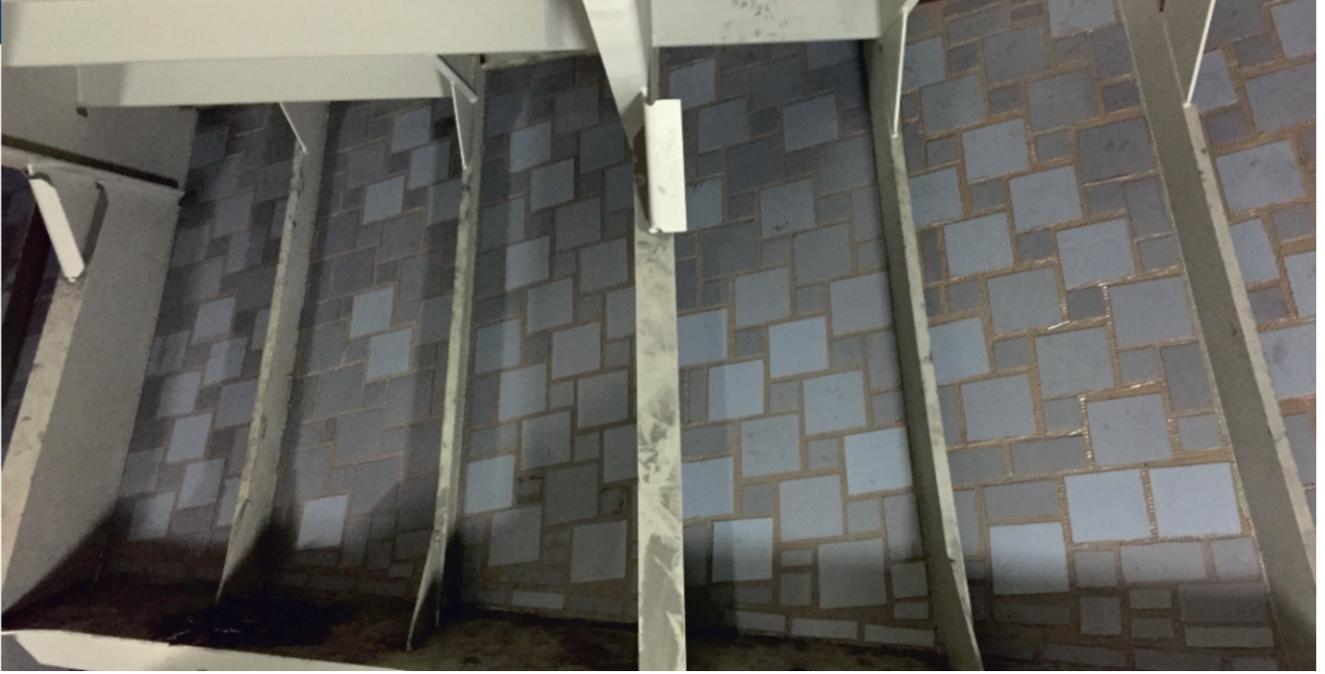
DECIDAMP DC 30

This product is a two-component, polyurethane based damping paste with perfect viscoelastic damping properties, and it also significantly decreases the air sound which radiates from the structure. It works best on a limited layer (sandwich system). This product, that performs great under a wide range of temperature, is perfect for numerous applications, especially in marine environment.

www.vizyonendustriyelyalitim.com/decidamp-dc-30_1 



SOUNDAC PU-D ANTI-DRUMMING PASTE



Sandwich anti-drumming of horizontal and non-horizontal surfaces

Soundac PU-D is a two component polyurethane designed for sandwich anti-drumming of steel and aluminium surfaces and very well suited for application on e.g. bulkheads and ship decks. We have a special type for horizontal surfaces and a type for non-horizontal surfaces.

Soundac PU-D is commonly applied as anti-drumming and raising the sound insulation of horizontal (PU-D20) and non-horizontal (PU-D30) surfaces and reduces noise generated by vibrations in machines and structures.

Description :

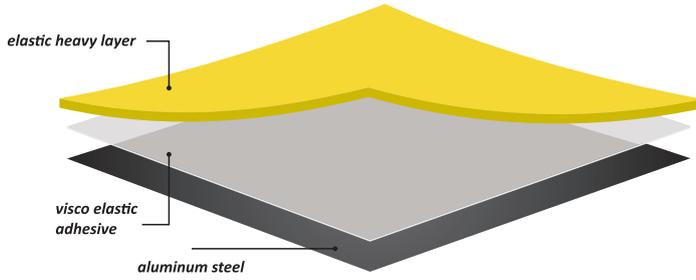
Soundac PU-D viscoelastic anti-drumming paste is a special developed polyurethane polymer that combined with steel or aluminum forms a sandwich construction that achieves high loss factors in a wide temperature and frequency range. The noise level as a result of structure borne noise is greatly reduced.

- ✓ PU-D20 horizontal ✓ PU-D30 vertical ✓ IMO certificate

MDT



Multi - Layer Damping Tile



MDT[®] is a multi-layer air borne and structure borne noise damping material which significantly reduces the vibrations and noise levels in steel, aluminum, fiber-reinforced plastics and carbon composite surfaces. MDT[®] is specifically designed to provide excellent and secure damping, flexibility, lightweight and very quick installation.

Technical Data :

MDT-STL	Technical Properties	
Material	Steel	Galvanised Steel
Dimensions	195 mm. x 295 mm. Other dimensions are available on request	
Thickness Steel	3,25 mm (Steel) (0.5mm. Steel + 0.25 Viscoelastic Layer+2.5 Polymer Layer) Thicknesses can be re-designed according to customer request.	
Coating/Color	Plain/galvanise color	
Weight MDT-STL As applied.	6,25 kg/m ² (3,25 mm MDT Steel)	

MDT-ALU	Technical Properties	
Top Material :	Aluminum	EN AW 1050
Tile Dimensions :	195 mm. X 295 mm. (+/- 5) Other tile dimensions are available on request	
Thicknesses :	3,75mm (Aluminum) (1mm. Aluminum + 0.25 Viscoelastic Layer+ 2.5 Polymer Layer) Thicknesses can be re-designed according to customer request.	
Coating/Color :	Plain or on requested color coil coated (min order 64m2 for colored tiles)	
Weight MDT-ALU As applied.	6,25 kg/m ² (3,25 mm MDT Steel)	



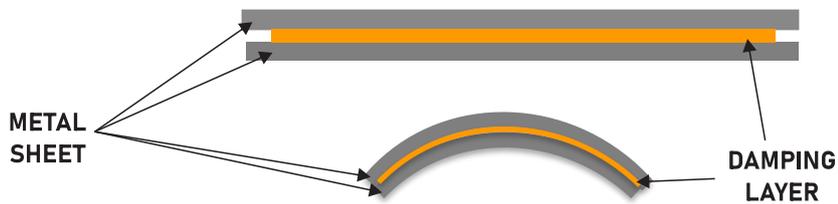
NDS / NOISE DAMPING STEEL ALM.

It is a constrained (reduced) layered metal composite. NDS is a damped aluminum composite consisting of two layers of aluminum laminated together using a layer of viscoelastic polymer to form its laminate. It is used as a noise-damping panel product in many sectors.

NDS[®] COMPOSITE PANEL (STEEL & ALUMINUM)

NDS[®] Composite Panel is a fully damped steel composite panel consists of two outer layers of steel or aluminum laminated together using a layer of a viscoelastic inner layer. Viscoelastic interlayer functions to damp disturbing structure-borne noise.

NDS[®] Composite Panel provides a significant vibration damping capacity in comparison to a normal metal sheet. The high loss factors make it very well suited for e.g. ceilings, walls and even floor systems. The system is based on the principal of sandwich anti-drumming with a constrained layer. When the NDS[®] Composite Panel starts to vibrate, the viscoelastic layer transforms vibration into thermal energy.



Acoustic Properties :

While standard viscoelastic materials such as acrylic and rubber based adhesives shows damping performance capabilities at very narrow temperature ranges, viscoelastic layer used by NDS[®] demonstrates excellent performance at low, room and high temperatures intervals. Typical acoustic performance depicted below figure. Continuous operating temperature is -50 C to 150 C.

Table 1: Average measured loss factor of tested panels

Panel no.	Description	Average loss factor (50 Hz - 1.25 kHz)
	Aluminium	
11	NDS composite panel aluminium	0.035
	Steel	
12	NDS composite panel steel	0.035

Intersona bv
noise and vibration consultants

Technical Data

NDS [®] Properties	
Material	Aluminum EN AW 5754 H111- EN AW 5083 H111 Steel Stainless steels (304 and 316), DKP steel, galvanized steel
Dimensions	1000 x 2000 mm Other dimensions are available on request
Thickness	1.25, 1.65, 2,05 mm (steel) 2.05, 4,05 mm (aluminum) (thickness of viscoelastic inner layer : 50 µm - 100 µm) Custom thicknesses are available on request
Coating/Color	Plain, Powder coating in RAL colors is available on request
Density	7400 kg/m ³ (Steel) 2600 kg/m ³ (Aluminum)

NDS PANEL MOUNTING MATERIALS



NDS Panel



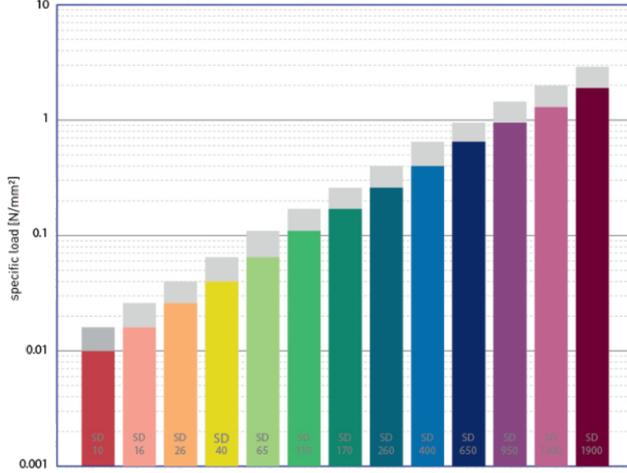
İnsulator



**Modular Internal Gear Stud
Stainless Steel - A2304**



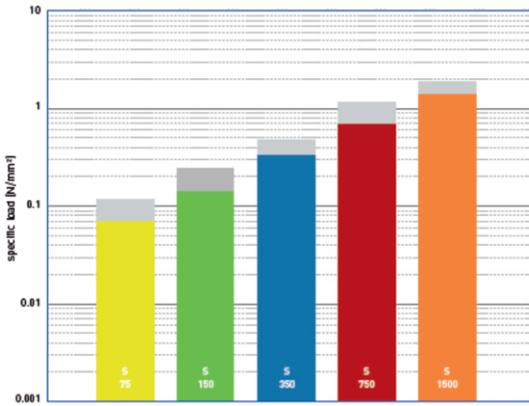
VIBRATION CONTROL PRODUCT LINE



VIBRAFOAM

This product is a two-component, polyurethane based, vibration damping compound, which is used for floor applications and developed for marine and offshore industries in order to decrease the structural noise and vibration, also for meeting the market demand. It is viscoelastic, light and mostly used for main floor layer or as an under layer in various floor linings.

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VIBRADYN

It increases acoustic comfort on leveling floors of ships and comfort boats and prevents transmission of vibrations to the structure. It is defined as Class E in DIN EN ISO 11925-1.

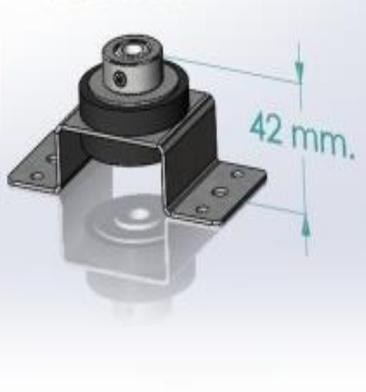
VIBRADYN S-75, VIBRADYN S-150, VIBRADYN S-350, VIBRADYN S-750, VIBRADYN S-1500

www.vizyonendustriyelyalitim.com/uploads/pdf/KRAIBURG_PuraSys_vibrafoam_vibradyn.pdf

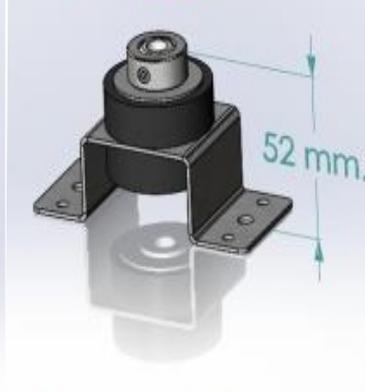


VIBRATION ISOLATOR SERIES

TYPE VZN 42



TYPE VZN 52



TYPE U 64



TYPE L 100



M8 MODÜLER İÇ STUD

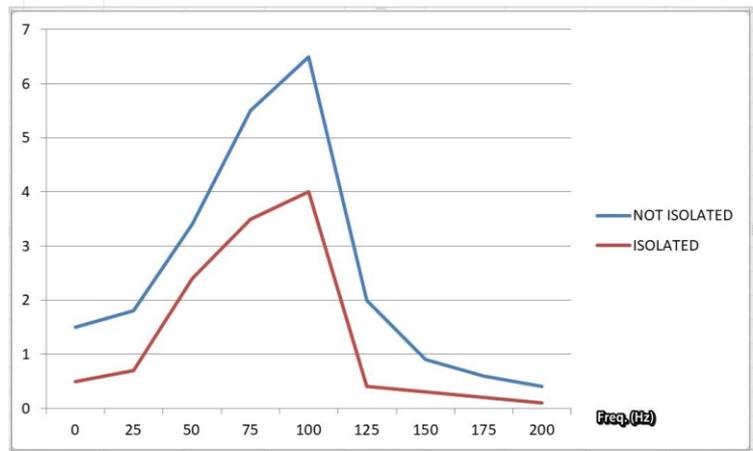


VZN-VIBRATION ISOLATORS / M8
TYPE : VZN 42, 52, L, and U
Anti vibration mount adjustable,
for interiors and mechanical rooms

- Structure-borne noise damping
- Effective solutions at short distances
- Possibility to use in many positions
- Non-contact ergonomic structure
- Maximum payload : 25 KG
- Tensile strength: 2000 N

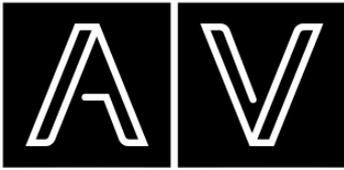
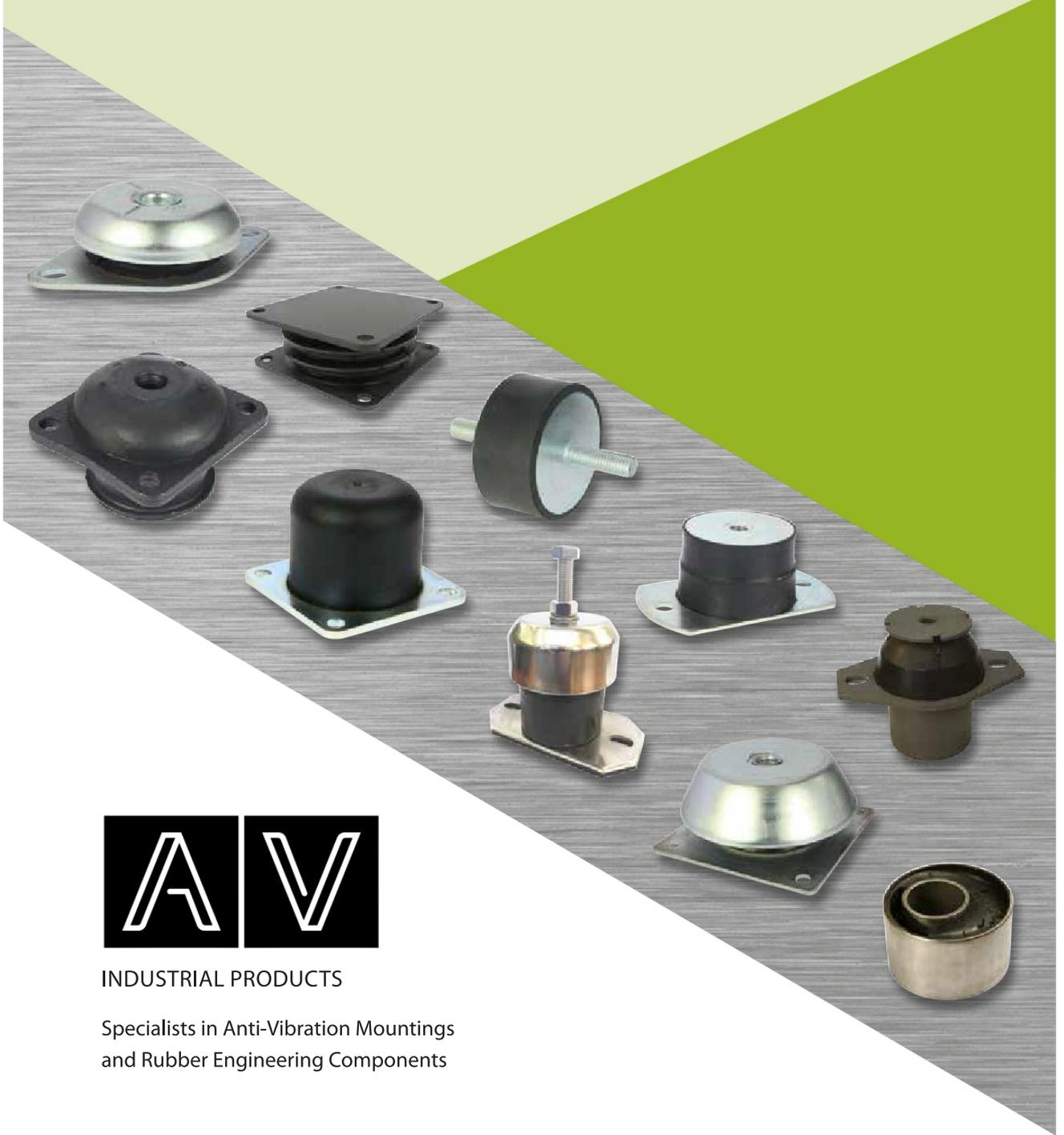
Build status : Stainless steel (1,5mm)
Rubber hardness : Standart 50 Shore / Or in
desired hardness
Standard Building Heights : 42,52,64,105 MM

Permeability coefficient



Vibration frequency should be less than the natural frequency of the system. An increase in the stiffness of the wedges increases the natural frequency and leads to a decrease in the dimensionless frequency ratio, in addition, an increase in the damping coefficient also reduces the resonance amplitude and reduces the relative position permeability.

https://www.vizyonendustriyelyalitim.com/uploads/pdf/VZN_VIBRATION_ISOLATOR.pdf



INDUSTRIAL PRODUCTS

Specialists in Anti-Vibration Mountings
and Rubber Engineering Components



Industrial Products Ltd

Cylindrical Bobbins						
Buffers & Bump Stops						
Captive Transit Mountings						
Silent Marine™ Mountings						
Flanged Circular & SL Mountings						
Turret & Flanged Mountings						
Cast Foot, Sandwich & Rail Mountings						
Levelling Feet & KG Block						
Spring, Hangers & Rope Mountings						
Instrument & General Mountings						
Instrument & General Mountings						



Industrial Products Ltd

Instrument & General Mountings						
Instrument & General Mountings						
Hydro Mountings						
Cone Mountings 2 Hole						
Cone Mountings 4 Hole						
Cone Mountings Heavy Duty						
Compression, CDM & Cab Mountings						
SW, Interleaf & Bemag Mountings						
Hollow Rubber Springs & Truck Buffer Pads						
IOS, Eccentric & Spherical Bushes						
Custom & Miscellaneous						



CAVOFLEX[®]

Drahtseil-Federelemente
Wire Rope Isolators

IMPACT SOUND ABSORBENT PLYWOOD COMPOSITE PANELS



VSP-HL PANEL



ACM-CR PANEL

IMPACT SOUND ABSORBENT PLYWOOD COMPOSITE PANELS

PRODUCT NAME	PANEL	BARRIER MATERIAL	BARRIER MATERIAL DENSITY	PANEL WEIGHT (KG)	NOISE REDUCTION RW CURVE
PRODUCT NAME	PANEL	BARRIER MATERIAL	BARRIER MATERIAL DENSITY	PANEL WEIGHT (KG)	NOISE REDUCTION RW CURVE @1/3 125 Hz
VSP HL 12 : VIZYON SOUND PANEL HL (4-4-4) 1.20 X 2.42 M	12 MM.	MASS LOADED HEAVY LAYER	1778 Kg./m ³	33 Kg	16.2
VSP HL 18 : VIZYON SOUND PANEL HL (6-6-6) 1.20 X 2.42 M	18 MM.	MASS LOADED HEAVY LAYER	1778 Kg./m ³	49 Kg	19.0
VSP HL 22 : VIZYON SOUND PANEL HL (8-6-8) 1.20 X 2.42 M	22 MM.	MASS LOADED HEAVY LAYER	1778 Kg./m ³	57 Kg	19.3
ACM 650 CR 12 : VIZYON SOUND PANEL CR (4-4-4) 1.20 X 2.42 M	12 MM.	CORK RUBBER	650 Kg./m ³	20,6 Kg	15.5
ACM 950 CR 18 : VIZYON SOUND PANEL CR (6-6-6) 1.20 X 2.42 M	18 MM.	CORK RUBBER	650 Kg./m ³	31,50 Kg	18.1
ACM 950 CR 22 : VIZYON SOUND PANEL CR (8-6-8) 1.20 X 2.42 M	22 MM.	CORK RUBBER	650 Kg./m ³	39,50 Kg	22.1
ACM 950 CR 26 : VIZYON SOUND PANEL CR (10-6-10) 1.20 X 2.42 M	26 MM.	CORK RUBBER	650 Kg./m ³	43,50 Kg	22.1



FLOATING SYSTEM ACOUSTICAL SEALANT

products are used for sound and fire insulation on floating systems and cabin to cabin passages. It blocks fire, gas and smoke transmission for 4 hours and increases sound insulation.

PROMARINE[®] -450T

Colour	Of-white		
Surface conditions	Smooth, sanded		
Nominal density (tolerance) (EN 12467)	kg/m ³	450 (±15%)	
Reaction to fire	Non-combustible Certificate Number: 164.109/1121 /WCL MED 475TE		
Class divisions		A0 Bulkhead	A60 Bulkhead
Panel thickness	mm	19	19+19 with 10mm air gap
Panels joint ¹⁾		Solid spline	Solid Spline
			B15 Bulkhead 19
			Solid spline, "C" spline or Omega joint
Thermal conductivity 20 °C (hot wire method)	W/mK	0.138	
Alkalinity	pH	7-10	
Coefficient of expansion α	m/mK	2.4·10 ⁻⁶	
Moisture movement	%	< 0.1 (ambient to saturated)	
Moisture content			
Typical	%	< 5 (at despatch)	
Maximum	%	< 12	
Bending strength (oven dry, EN 12467)	N/mm ²	> 2.2	
Compressive strength (oven dry, EN 12467)			
5% deformation	N/mm ²	5	
10% deformation	N/mm ²	10	
Quality assurance	N/mm ²	Module D. Certificate WCL MED164.109/1121/0475QA	

Acoustic properties

Thickness	mm	19	19+19 (+10mm air gap)
R _w index (ISO 717/1)	dB		

Dimensions (standard)

Thickness (tolerance)	mm	16 (±0.4, double sanded)	19 (±0.4, double sanded)
Width (tolerance)	mm	1220 (±1)	1220 (±1)
Length (tolerance)	mm	2440 (±1)	2440 (±1)

PROMARINE[®]-450T

Areas of application

- A, B & C Class constructions
- Compartmentation
- Linings
- Non-combustible furniture

Workability

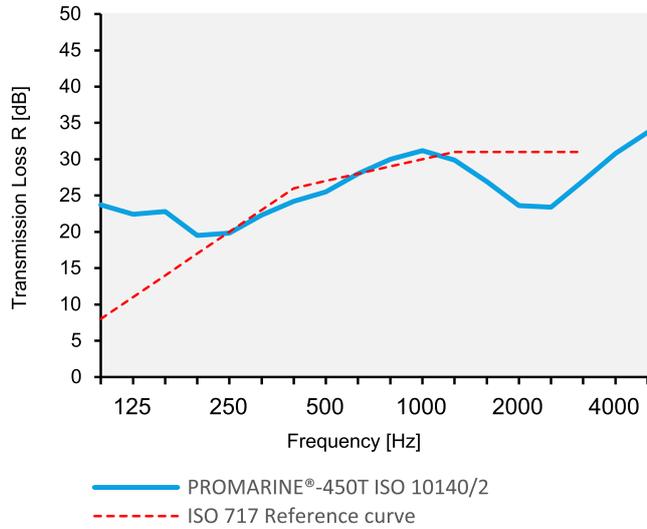
PROMARINE[®]-450T can be cut using normal woodworking tools or by using circular blades. During cutting operations use personal protective equipment (see below).

Handling

PROMARINE[®]-450T should be worked and installed using appropriate personal protective equipment (PPE). Use protective gloves, glasses, suitable respiratory equipment

Acoustic properties

19mm, R_w=27 [dB]



to avoid health effects, and suit. Use dust extraction when worked inside. After use, thoroughly wash hands and any other parts that could have been in contact with the material. For further information refer to Safety Information Sheet.

Waste disposal

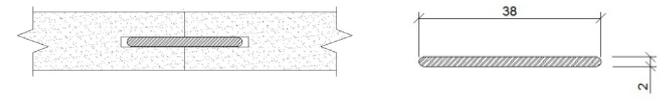
Refer to local legislation. If not available: The board is not classified as a dangerous substance and so no special provisions are required regarding the carriage and disposal of the product to landfill.

Storage

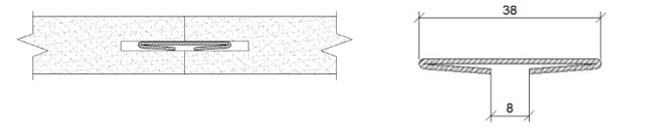
Store on a flat surface, in a dry area.

Class divisions – joint drawings

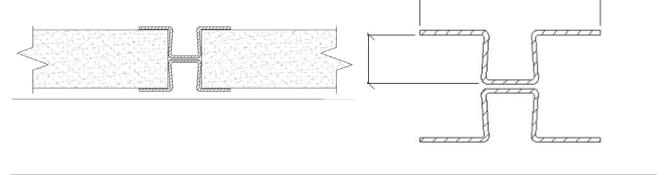
Solid spline



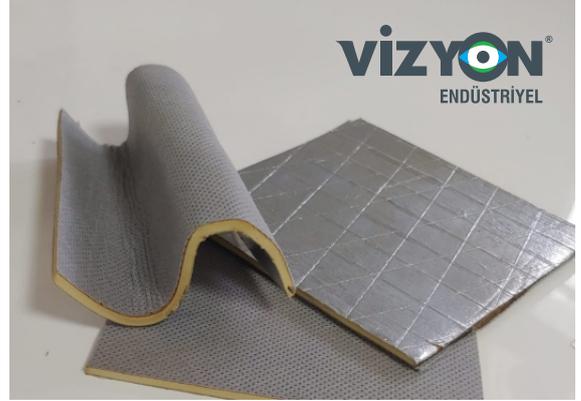
"C" spline



Omega joint



SUPER[®] **SILENT HL**



VISCO ELASTIC DAMPING BARRIER (SUPER SILENT HL)

SUPER SILENT HL 100 : (5 mm) 2000 kg / m³

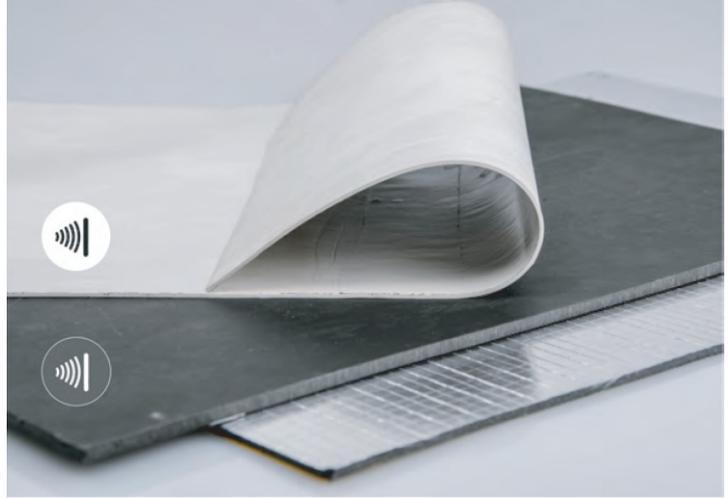
SUPER SILENT HL 70 : (3,5 mm) 2000 kg / m³

SUPER SILENT HL 50 : (2,5 mm) 2000 kg / m³

SUPER SILENT HL 35 : (1,7 mm) 2000 kg / m³

- Easy to use and adaptable to rough surfaces.
- Can be easily cut with a knife or scissors
- Good adhesion to most surface types.
- Acts as a steam control layer
- Resistance to cold and heat.
- Excellent aging resistance.
- Does not rot.

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- Excellent at reducing the transmission of airborne sound
- Environment friendly. 100% recyclable.
- Free of lead, bitumen, halogen and phosphate
- Flexible, easy to cut and install.
The pearlywhite ArmaComfort® Barrier P remains visible or be painted
- Self adhesive with very good adhesion on steel and plasterboard

Property	Value/Assessment							Test ¹	Special Remark
Temperature Range									
Temperature Range ¹	max. service temperature						+80 °C		Tested acc. to EN 14706, EN 14707 and EN 14304
	min. service temperature						-20 °C		
Fire performance									
Reaction to fire	ArmaComfort® Barrier P						B-s2, d0	EU 7098 EU 7097 EU 7117	Classified acc. to EN 13501-1 Tested acc. to EN 13823 and EN ISO 11925-2
Other Fire Class	ArmaComfort® Barrier P						V-0 @ 2,5 mm	EU 7127 EU 7084	EN 60695-11-10-2013. UL 94 Ed. Jan19, 2018 & IMO ISO-5658-2 (2006) FTP 2010 Annex 1 Part 5
	ArmaComfort® Barrier P						IMO MED B Approval		
Acoustic Performance									
Calculated broadband insertion loss	Weighted Sound Reduction Index in accordance with ISO 10140-2							EU 7083 EU 7093 EU 7092	Tested acc. to EN ISO 10140-1: 2016
	Arma Comfort®	mm	1 mm	2 mm	3 mm	4 mm	5 mm		
Barrier P	Rw (dB)	23 (-1;-4)	27 (-1;-3)	30 (-1;-4)	32 (-1;-3)	34 (-1;-3)			
Other technical features									
Density	ArmaComfort® Barrier P		kg / m ³				≥ 2050		
Dimensions and tolerances	In accordance with EN 14304, table 1: Tolerance of max. 2 mm (width of the sheets or rolls without adhesive)								Tested according to EN 822, EN 823, EN 13467
Storage & Shelf life	Self-adhesive sheets: 1 year								Can be stored in dry-clean rooms at normal relative humidity (50% to 70 %) and ambient temperature (0 °C-35 °C) Application temperature > + 5 °C and < +30 °C & rel. humidity < 80%

1. For temperatures below -20 °C please contact our Customer Service Center to request for the corresponding technical information.

*1 Further documents such as test certificates, approvals and the like can be requested using the registration number given.



PROMASOUND[®]-TL



Product description

PROMASOUND[®]-TL is a flexible barrier for acoustic insulation, with no heavy metals content and totally lead and PVC free.

PROMASOUND[®]-TL is an innovative latest generation visco-elastic product; it provides high performance acoustic insulation with low flame spread characteristic.

It is MED certified and USCG approved.

Properties

- easy and fast installation
- a safe and harmless material with no lead and other harmful materials according to 67 /548/CEE regulation and subsequent amendments

Technical data

Colour		Irregular light grey
Nominal density (tolerance) (UNI 7092, ASTM D1817, EN 53479)	kg/m ³	2100 (±10%)
Chemical composition		Plastic polymer with mineral fillers
Reaction to fire (thickness 1 to 5mm)		Low spread of flame
Quality assurance		Module D. Low spread of flame
Service temperature		
Continuous	°C	-30 to 90
Steady state	°C	-50 to 110
Peak	°C	130
Thermal conductivity (EN 12667:2001 - EN 12664:2001)	W/mK	0.213
Best application	°C	15–20 (ambient temperature)
Hardness (tolerance) (UNI ISO 868, ASTM D2240)		80 (Shore A) (±10%)
Breaking load (UNI 6065, ASTM D412)	N/mm ²	> 1.0
Elongation (UNI 6065, ASTM D412)	%	> 40
Storage		Indoor, minimum temperature of 5°C in its original pack

¹⁾ Certificate number and details available upon request.

Acoustic properties

Thickness	mm	1	1.5	1.75	2	2.5	3	4	5
R _w index (ISO 717/1)	dB	23	25	26	27	29	31	33	35
Thickness	mm	1.5			1.75		3		
Dynamic stiffness (UNI EN 29052-1:1993)	Extrapolat. resonance	586.6			537		372		
Dynamic stiffness (MIP 110)	MN/m ³	2397.7			2138.4		1027.1		
Young modulus (MIP 110)	E [Pa]	3.60			3.74		3.08		
Poisson coefficient (MIP 110)	MPa	1.02			-		0.74		

Dimensions (standard)

Thickness (tolerance ±10%)	mm	1.0	1.5	1.75	2.0	2.5	3.0	4.0	5.0
Roll length (tolerance ±5%)	mm	100	70	0	50	50	50	30	25
Width (tolerance ±2%)	mm	1000	1000	1000	1000	1000	1000	1000	1000
	mm	1200	1200	1200	1200	1200	1200		

PROMASOUND[®]-TL can be supplied, on demand, in sheets with different dimensions or customised and shaped as per customer's drawing.



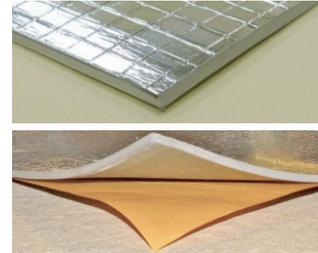
PROMASOUND[®]-TL

Workability

PROMASOUND[®]-TL is flexible and can be cut with cutters, scissors, knives or by using circular blades. It can be easily installed and adapted to specific tailor-made shapes to meet specific customer's requirements. It can be pre-cut as per drawings and supplied in self-adhesive version. It does not release any dust or aerial particles.

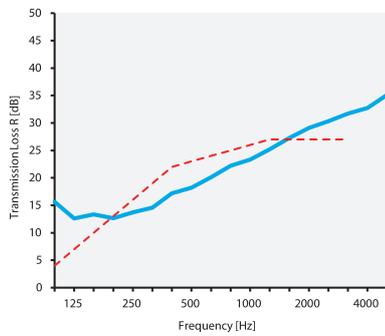
Alternative facings

PROMASOUND[®]-TL can be delivered with smooth, reinforced or embossed aluminium foil 30µm thickness (PROMASOUND[®]-TL ALU, upper image) with (lower image) or without self-adhesive..

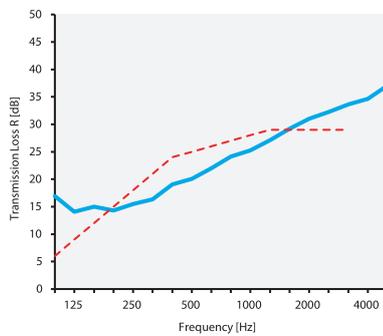


Acoustic properties

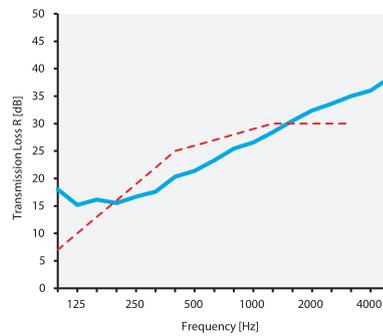
1mm thickness, $R_w = 23$ [dB]



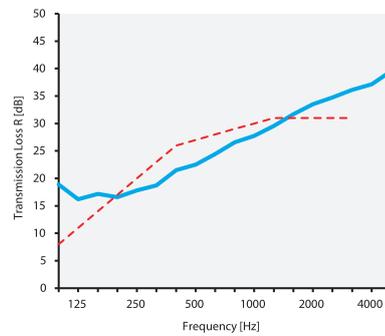
1.5mm thickness, $R_w = 25$ [dB]



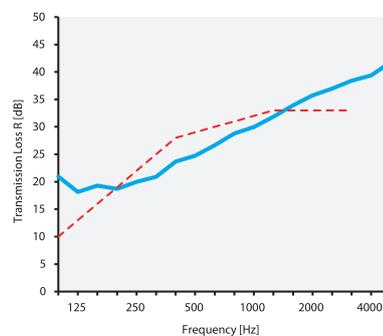
1.75mm thickness, $R_w = 26$ [dB]



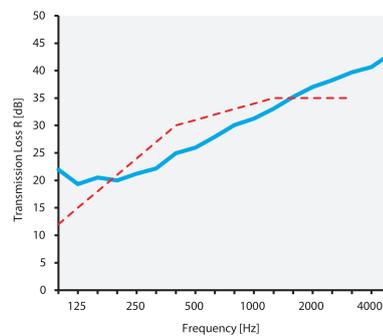
2mm thickness, $R_w = 27$ [dB]



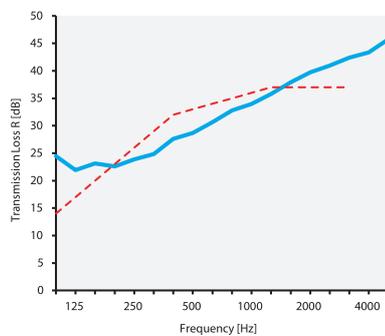
2.5mm thickness, $R_w = 29$ [dB]



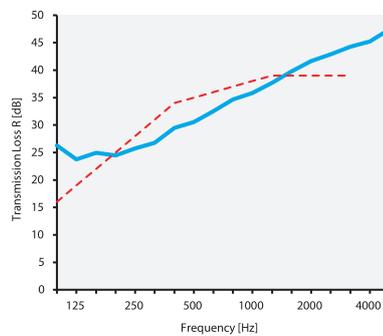
3mm thickness, $R_w = 31$ [dB]



4mm thickness, $R_w = 33$ [dB]



5mm thickness, $R_w = 35$ [dB]



— PROMASOUND[®]-TL ISO 10140/2
 - - - ISO 717 Reference curve

All specified technical data are mean values from the production which are subject to the usual fluctuations and do not represent guaranteed properties in the sense of a guarantee. All information corresponds to the current state of the art and has been presented and described to the best of our knowledge. Changes due to new findings are possible, errors and misprints are not excluded. With regard to any liability, our delivery and payment terms apply exclusively. Request safety datasheet. With the publication of this edition, all previously published datasheets are invalid.
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SILENTSTEP PREMIUM

It is a high performance acoustic carpet padding which consists of highly dense, first-class foam and a flexible mass-loaded barrier that is attached to the underlayer. (It is also possible to apply under parquet.) The combination of these two products enable Silentstep to reduce the noise, that arise from the transmission effect such as footsteps, and air-borne noise such as speech. Silentstep Premium was developed to supply the market's noise reduction requirements in the multi-storey living, commercial, automotive and marine markets. It is simple to cut and pave, offers perfect support and a solid padded base for any carpet applications. It is also ideal for lightweight paving structures such as wood and marine applications where fiberglass and composite floor panels are used.

DIMENSIONS: 2000 X 1200 mm

THICKNESS: 12 mm

DENSITY: 2210 kg/ m³

www.pyroteknc.com/products/silentstep/silentstep/ 



"DAMTEC STANDARD" RUBBER CORK MATERIAL

THICKNESS: 3,4 AND 6 mm // WIDTH: 1 m // ROLL LENGTH 20 OR 30 m. // DENSITY 650-750 kg/m³

It belongs to the DAMTEC Cork Rubber product group. Damtec is manufactured by KRAIBURG Relastec in Germany. It is the most effective, high quality sound insulation mattress that is used in order to isolate the sound caused by heel impact vibration from the sole of the foot, on floors and even ceilings and walls.

www.kraiburg-relastec.com/pdfs/data-sheets/damtec/en/data-sheet-damtec-standard-62.pdf 



SES EMİCİLER ÜRÜN GRUBU



SORBERMEL

It is a flexible, lightweight, open-cell, light gray foam that is made of melamine resin. With a high degree of flame retarding, excellent sound absorption and thermal insulation properties, Sorbermel is dimensionally stable and harder than polyurethane foams. It is preferred in weight sensitive applications. Sorbermel achieves some of the highest classifications in fire ratings in order to meet national and international standards. Sorbermel is a choice for a variety of industrial applications such as railway, automotive, marine, building and construction, it is manufactured as AGC (Aluminum Glass Cloth) and textile coated.

1-VZN-SORBERMEL AGC

2-VZN-SORBERMEL TEXTILE

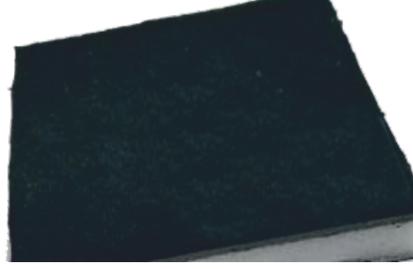
THICKNESS: 20,30,50 and 80 mm

DIMENSIONS: 1.2 m X 1 m

www.vizyonendustriyelyalitim.com/sorbermel



VIZYON®
ENDÜSTRİYEL



VIZYON®
ENDÜSTRİYEL

SORBERBARRIER

It is a unique composite noise control product that offers both excellent noise transmission loss and high noise absorption at the same time. It is developed in order to meet noise reduction requirements in the OEM and marine markets. Sorberbarrier combines the superior performance of the flexible mass barrier Wavebar® with the high absorption properties of Sorberfoam™. The wavebar is laminated to the Sorberfoam layer to change the natural absorption curve, which improves sound absorption at mid to high frequencies. One side is manufactured with AGC (Aluminum coated Glass Colth).

1-VZN-BARRIER AGC

2-VZN-BARRIER TEXTILE

THICKNESS: 20,30,50 and 80 mm

DIMENSIONS: 1.2 m X 1 m

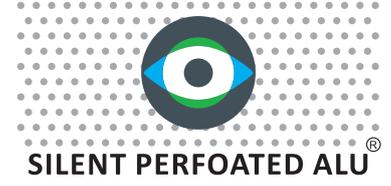
www.vizyonendustriyelyalitim.com/sorberbarrier_1 



SORBERFOAM

These are new generation flexible acoustic foams which are modified with non-combustibility feature, and also have high noise absorption properties in a wide range of frequency. They are developed in order to meet market demands for reducing resonance noise in, commerce, OEM and automotive markets. Pyrotek has formulated and developed a polyurethane foam which performs much better than traditional acoustic foams by controlling cell size, porosity, density and flow resistance throughout the cell structure.

www.vizyonendustriyelyalitim.com/sorberfoam 



VZN-SİLENT PERFORE ALU. / SOUND ABSORBING DECORATIVE ALM. PANEL

It is a sound absorbing finish panel with perforated metal sheet. The sheets are available as plain or laminated with Sorbertextile STA, a black, airflow resistant, glass-based acoustic textile, offering high performance sound absorption. The product has an aesthetic appeal and has a hard, durable surface. The perforated metal surface is manufactured from marine grade 5052 aluminum sheet or electro galvanized steel. This open space allows sound waves to pass through and be absorbed by the backing fabric. As the sound passes through the durable backing fabric, the sound waves create heat through friction, resulting in energy loss, thus reducing noise and reflected sound. The boards have a powder coat finish of white or desired color which provides corrosion resistance. The metal surface can be powder coated before the backing fabric is bonded with Sorbertextile STA,

ALUMINIUM PANEL THICKNESS: It is manufactured as 1.12 and 1.5 mm.

DIMENSIONS: 1 X m X 2 m (net size with perforated holes)

STANDARD RAL CODES: 9010 and 9003

HOLE DIAMETER .1, 1.5 and 2 mm. It is produced as a standard hole diameter production of 2 mm.



www.vizyonendustriyelalitim.com/uploads/pdf/SILENT_PERFORATED_ALU.pdf 

THERMAL BARRIER AND CONDENSATION CONTROL PRODUCT LINE



DECICOAT T35

T35 is a water-based sprayed thermal insulation coating with especially formulated anti-condensation and corrosion protection properties. It is developed for market requirements in railway, offshore, marine, chemistry, petrol, automotive and construction areas. It is quite economic with its easy application and consumption amount.

www.vizyonendustriyelyalitim.com/decicoat-t35_1 

HIGH TEMPERATURE AND FIRE INSULATION PRODUCT LINE



FIRE MASTER CERAMIC BLANKET

Morgan Thermal Ceramics' FireMaster[®] range of fire protection is specifically designed to meet the structural fire protection needs of the marine industry and offers high performance and lightweight structural fire protection.

FireMaster[®] flexible, lightweight blanket products are made without chemical binders and do not produce toxic fumes or isocyanates in fires. They are widely used for bulkhead and deck fire protection on fast ferries, cruise ships and luxury yachts. Morgan Thermal Ceramics is the market leader in high speed boat fire protection. FireMaster[®] products are capable of long-term operation at high temperatures. This means that in applications where fire temperatures can reach around 1400°C, our fire protection solutions can be thinner, lighter or more cost-effective options.

FireMaster[®] Marine Plus Blanket systems have DNV and EU MED approvals for structural fire protection of steel, aluminum and sandwich panel composite structures. FireMaster[®] 607 and Marine blanket hold multiple international type approvals and EU MED approvals.

www.morganthermalceramics.com/media/2224/fm-marine-plus-faced-blankets-data-sheet.pdf 



MINERAL WOOL

Marine insulation from the ROCKWOOL SeaRox range is designed to improve fire safety, indoor climate and sound protection in the marine and offshore industry.

Our solutions are suitable for multiple applications. This includes on-board cruise liners, passenger ships and merchant vessels, as well as offshore units, such as oil rigs and wind farms.

Products range from lightweight slabs and flexible mats, to high density, rigid slabs – delivered with a wide range of alternative facings.

www.rockwool.com/group/products-and-applications/marine-and-offshore-insulation/#why 



VIZYON AEROGEL BLANKET

It comes in rolls with a wall thickness of 10 mm, width of 1 m and length of 10 m. The heat transmission coefficient value is: 0,027 W (m²/K)

PHYSICAL PROPERTIES

- Operating Temperature: -50 °C, +350 °C
- Thermal Conductivity Coefficient: 0.016 W / mK
- Color: White
- Water Absorption: 6% minimum, 14% maximum (after 24 hours conditioning at 300 °C/600 °F)
- Slump resistance: ≤ 5% thickness change
- Vapor Permeability: 5-5.5 mu
- Fire Class: A-s1-d0
- Compressive Strength: 40 kpa 10%
- Environmental Impact: 5.4 kg of CO2 per m² (1 cm thickness)
- Heat Capacity: 1000 J / kg / K
- pH: 8
- Blanket Grain Size: 0-1 mm, 1-2 mm, 2-4 mm
- Product Shape: Roll
- Product Width and Length: 1 m X 10 m (10 m² / ROLL)

www.vizyonendustriyelyalitim.com/aerogel-blanket 

1100 °C
VIZYON
MIKROPOROUS[®]
PANELS



VM BOARD 1000 °C



VM FLEXIBLE 1000 °C

VIZYON MICROPOROUS PANELS (1000 °C)

Vizyon Microporous Panels is a rigid, high integrity microporous board offering superior insulation properties combined with good handleability. Produced from an opacified blend of pyrogenic silica with a filament reinforcement, this board is available in a 1000 grade, in a raw state (ie no encapsulation) or enhanced in a variety of coverings, such as glass fibre or aluminium encapsulation. Features and Benefits

www.vizyonendustriyelyalitim.com/uploads/pdf/VIZYON_MIKROPORUS_PANELS_1000_C_.pdf



VM 17

THERMAL INSULATION SYSTEM FOR HIGH TEMPERATURE IN THE CONSISTENCY OF PASTE (1000 °C)

The demand for high temperature insulation is emerging everywhere in industry where gases or liquids need to be supplied, extracted or transferred without adversely affecting the environment. With the VM 17 insulation system, a suitable process that has proven itself in many fields has been developed. It has been ensured that no health problems arise in the production of insulation or the use of insulated aggregates.

THERMAL CONDUCTIVITY OF INSULATING COMPOUND VM 17 (TWO-PLATE METHOD)

Mean temperature (°C)	100	200	300	400	500	600	700	800
(W/mK)	0.13	0.14	0.15	0.16	0.18	0.20	0.21	0.23

www.vizyonendustriyelyalitim.com/yukse-isi-1000-c-sivi-kivamli-yalitimi-vm-17

AREMCO



MATERIALS

Aremco's advanced material division is a leader in the development and production of technical ceramics, adhesives, coatings, sealants and potting compounds for applications to 3200 °F. These materials are used throughout industry in the design of sensors, electrical components and analytical instruments. Industries served include automotive, aerospace, chemical processing, metallurgical, power generation and semiconductor.

www.aremcoturkiye.com/teknik-dokumanlar 

HIGH TEMPERATURE INSULATION AND REFRACTORY



www.vizyonendustriyelyalitim.com/uploads/pdf/thermal-ceramics-product-overview_april2019_websize.pdf 

HIGH TEMPERATURE ADHESIVE AND HYBRID ISOLATION TECHNOLOGIES

VATRAL 200 - THE SPECIAL ADHESIVE

A versatile silicate adhesive is. Mineral additions give a high resistance to heat to Vutral® 200. The adhesive is useable for temperatures up to 1250 °C also at repeating cooling's.

Fire protection adhesive hardens both physical by water removal and by reaction with air carbonic acid. Do not tend to flow and form a top flat film already after approx. 4 minutes. (Recommended process time until 15 minutes when using tooth spatulas)

A one component ready for use adhesive is.



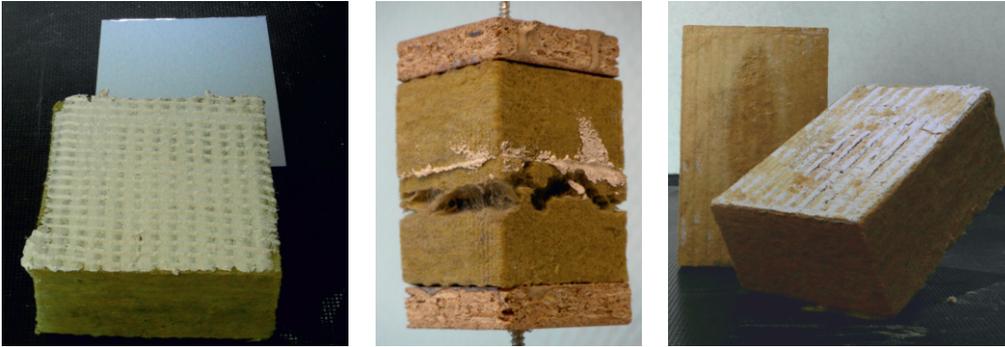
<https://hsmc.de/en/shipbuilding/#1489615225736-b13979c1-ba5c> 



VATRAL 1030 - FIRE PROTECTION ADHESIVE

one is produced high-temperature resistant, one components adhesive from mineral/inorganic organic hybrid binders. Specific use of easy fillers increases the productiveness and improves the processing quality.

Vatral® 1030 was developed especially to stick mineral wool together with a mortar like adhesive order with each other or on mineral or metallic sub-reasons flatly. Closing or fulfilling gaps. Particularly in compensation on uneven areas as well as for the joint free processing (top surfaces adhesion).



<https://hsmc.de/en/shipbuilding/#1489016269192-9dc57c0e-0cb8>

VATRAL 125/150

MORTAR AND MOLDED PARTS WITH FIRE AND HEAT INSULATING PROPERTIES FOR SHIPBUILDING, BUILDING CONSTRUCTION AND INDUSTRY

Mortar specially developed for leveling uneven substrates, filling cavities and for mold making. Boards for light wall constructions, such as sectional doors with precisely fitting molded parts. Vatral® 125/150 board is used in constructional building. It can be used in walls, ceilings, cold room and furniture construction.

Pipe shells for thermal insulation at low temperatures, especially in combination with a diffusion-tight aluminum coating.

In combination of molded parts and mortar, even complicated constructions can be insulated without thermal bridges.



<https://hsmc.de/en/shipbuilding/#Vatral-125-150>



VATRAL 150/650

The intelligent technical insulation made of mortar and moldings.

The most effective solution for stable insulation free of convection and thermal bridges and with increased protection against fire, mould and rust. Usable in industrial plants, vessels, offshore or building construction.



<https://hsmc.de/en/shipbuilding/#1488151781251-ee06ecf0-92e4>

VATRAL DIAPHAN

READY-TO-USE TRANSPARENT DISPERSION ADHESIVE FOR OBJECT WALL CLADDINGS

Vatral® Diaphan is an organic/inorganic, water-based, solvent-free composite dispersion with high initial adhesion and bonding strength. Vatral® Diaphan is suitable for moist areas.

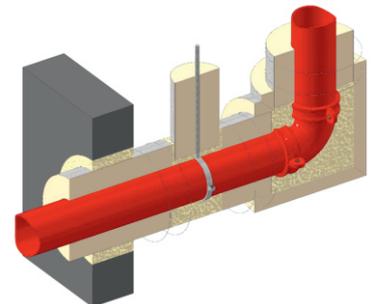
Vatral® Diaphan is based on modern hybrid binders. Due to the consistent reduction of the organic content in the binder, Vatral® Diaphan is particularly suitable where the fire load is to be kept low or where requirements are placed on the behavior in fire.

<https://hsmc.de/en/shipbuilding/#1648485097450-ed745f73-3492>

VATRAL SP SYSTEM

FIRE PROTECTION SYSTEM FOR SPRINKLER AND FIRE EXTINGUISHING SYSTEMS

The Vatral® SP system is the system for cladding dry and wet sprinkler pipelines, including their penetrations through solid structural elements. It differs from existing types of construction in terms of design as well as materials, installation and functioning. The Vatral® SP system is based on the non-combustible Vatral® SPM mortar and its development was oriented to plaster claddings made of mortars with vermiculite and perlite according to DIN 1993-1 2/NA:2010-12. Despite a reduction in the bulk density, the moisture plateau, which is decisive for fire resistance, was significantly extended.



<https://hsmc.de/en/industry/#vatral-SP-System-hochbau>

HIGH TEMPERATURE NEFALIT BOARDS AND GASKETS



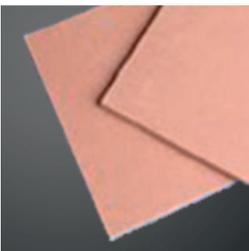
Nefalit 5: Mineral fiber-based, asbestos-free board with a classification temperature of 750 °C. It has a yellow/beige colour and 950 kg/m³ density value. After exposed to 750 °C for 24 hours, the shrinkage value of Nefalit 5 is less than 2%.



Nefalit 7: With a classification temperature of 850 °C, it is a mineral fiber-based product which does not contain asbestos. Its density is 850 kg/m³ and its colour is gray/beige. After exposed to 1000 °C for a period of 24 hours, the shrinkage value of the product is less than 2%.



Nefalit 11: Mineral fiber based asbestos-free product with a classification temperature of 1100 °C. Its colour is yellow and its density is 1100 kg/m³. When exposed to 1000 °C continuously for 24 hours, it shows a shrinkage value which is less than 1%. It can be successfully used for the applications at which other grades of Nefalit and Millboard to be used.

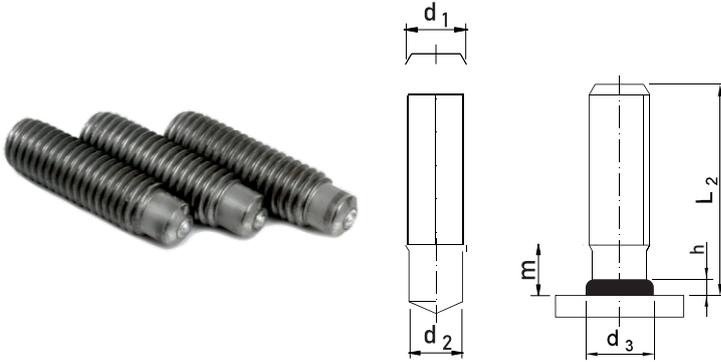


Nefalit 16: Ceramic fiber based product with a classification temperature of 1200 °C. It is asbestos free, has a density of 1000 kg/m³ and tile red in colour. With a shrinkage value of lower than 4% at 1150 °C, it is used at high temperature insulating applications due to its high abrasion resistance. It is a particular product to be used in centrifugal casting.



SPARK WELD STUDS

THREADED STUD TYPE RD, PD, UD and DD

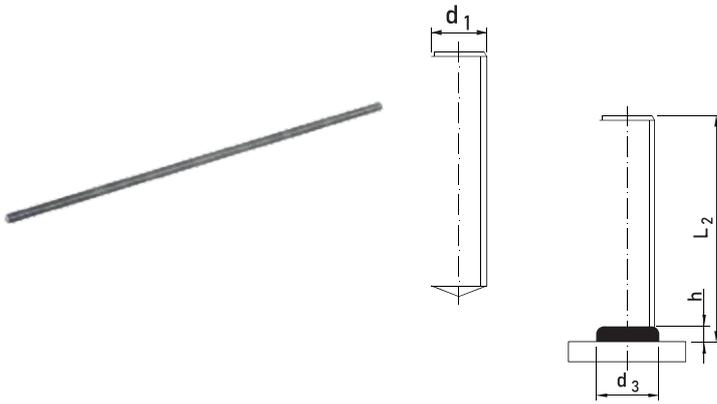


Material: stainless steel , steel 4.8 and alum 6082-6061.

Use: threaded mounting studs with undercut threads and shafts come in a wide range of applications in the marine and land industry. ISO 13918

Availability: on request (limited stock)

Logistic minimum: 100 pcs/package

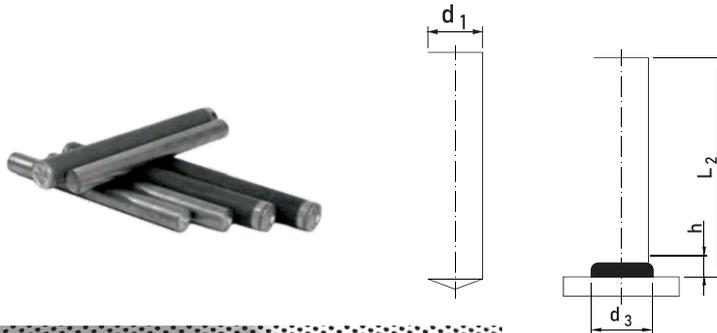


Material: stainless steel and steel 4.8

Use: mounting studs are fully threaded and usable in a wide range of marine and land industry.

Availability: on request (limited stock)

Logistic minimum: 100 pcs/package

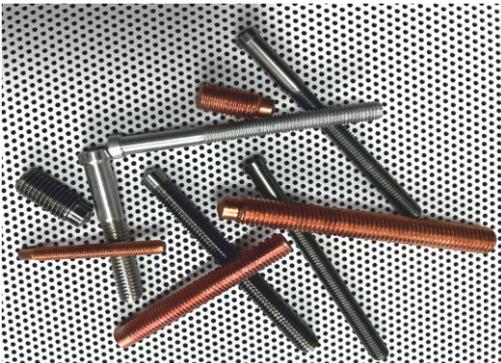


Material: stainless steel and steel 4.8

Use: unthreaded mounting studs come in a wide range of applications in the marine and land industry.

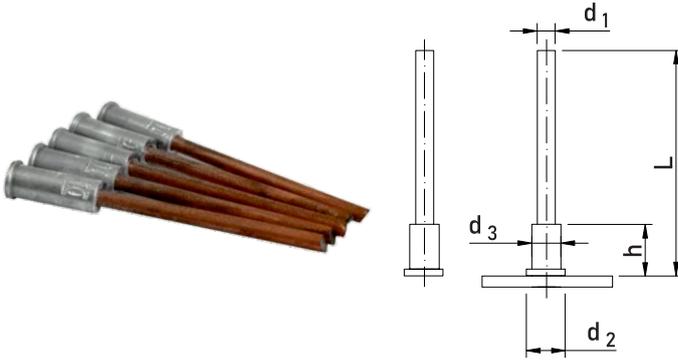
Availability: on request (limited stock)

Logistic minimum: 100 pcs/package



ISOLATION NAILS

BIMETAL PIN VBS (ALUMINIUM AREA)



Material: copper covered steel, stainless steel 1.4301 (aluminium ending)

Use: assembling the insulation on aluminium surfaces in the marine and land industry. Bimetal pins are made of heat-sealable wire in diameter $\varnothing 3\text{mm}$.

Logistic minimum:

25mm - 40mm - 2000 pcs./package

50mm - 100mm - 1000 pcs./package

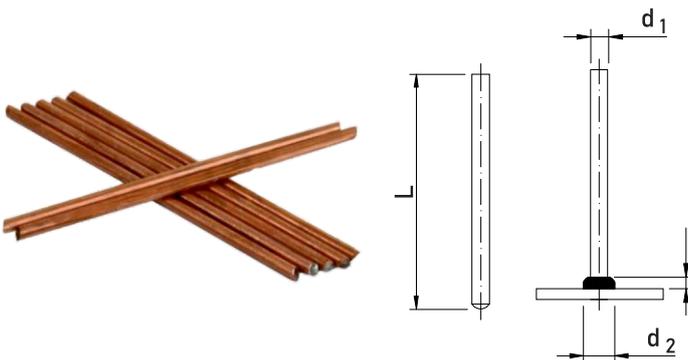
from 110mm - 500 pcs./package

ALUMINUM CAPSULE INSULATION NAIL

It is produced in 40 mm, 80 mm, 120 mm, 140 mm and 160 mm lengths.

Nail wall thickness: 3 mm

INSULATION PIN



Material: copper covered steel, stainless steel 1.4301

Use: assembling the insulation in the marine and land industry. Insulation pins are made of heat-sealable wire in diameters range $\varnothing 2\text{mm}$ to $\varnothing 5\text{mm}$

Availability:

on request

Logistic minimum:

25mm - 50mm - 2000 pcs/package

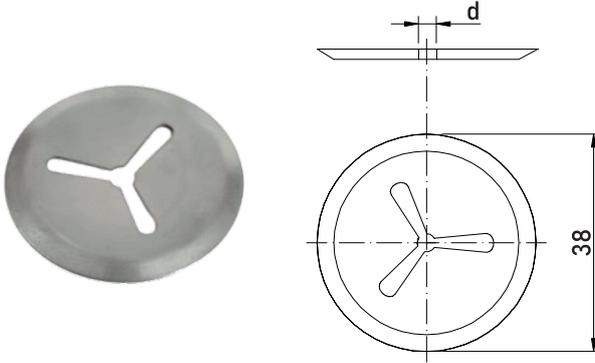
60mm - 150mm - 1000 pcs/package

from 160mm - 500 pcs/package

It is produced in 40 mm, 80 mm, 120 mm, 140 mm and 160 mm lengths.

www.vizyonendustriyelalitim.com/uploads/pdf/VIZYON_WELD_STUDS.pdf 

CLIP TYPE R



Material: galvanized steel ST, OC;
stainless steel 1.4301

Use: applicable for mounting insulation on
alltypes of pins.

Availability: in stock

Logistic minimum: 6000 pcs/package

ALUMINUM CAPSULE INSULATION NAIL

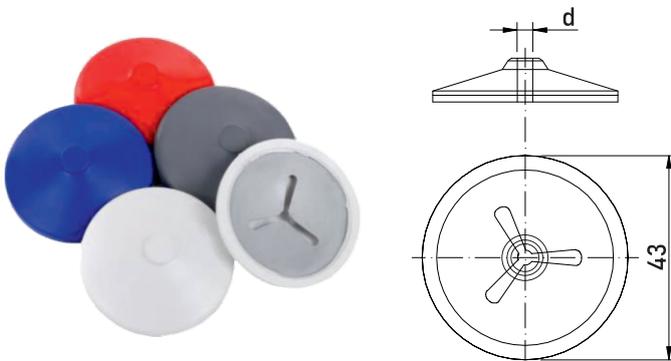
It is produced in 40 mm, 80 mm, 120 mm, 140 mm and 160 mm lengths.

Nail wall thickness: 3 mm

MATERIAL: STEELST

d	Diameter (mm)	Weight(kg/100)	Index
3	38	0,35	T-03-001T-
4	38	0,35	03-002

CLIP TYPE WN (DECORATIVE)



Material: galvanized steel ST, OC;
stainless steel 1.4301

Use: applicable for mounting insulation on
alltypes of pins. Clip supplied with decorative
PVCcover.

Availability: in stock

Logistic minimum: 2500 pcs/package

ALUMINUM CAPSULE INSULATION NAIL

It is produced in 40 mm, 80 mm, 120 mm, 140 mm and 160 mm lengths.

Nail wall thickness: 3 mm

www.vizyonendustriyelalitim.com/uploads/pdf/VIZYON_WELD_STUDS.pdf 

TEXTILES PRODUCT LINE



SORBERTEXTILE

It is a glass-based acoustic textile coated with a heat sensitive adhesive. The fabric is designed and certified to provide excellent mechanical strength, opacity, permeability and non-flammability. It is mainly designed for mounting behind porous panels, in order to provide good sound absorption and an elegant appearance. If the fabric is being used for further enhancement of acoustic properties, it also helps to prevent fiber release from bulk insulating materials such as; polyester blanket, rock wool or fiberglass. Sorbertextile STA can be laminated with Sorberscreen, Sorberfoam and Sorberpoly, in order to increase the fire and acoustic performance. When laminated to porous metal, Sorberscreen ST achieves the highest fire ratings in low flame spread, conforming to International standards of MED B and MED D certificates (Wheelmark)

ROLL WIDTH: 1.20 m.

www.vizyonendustriyelyalitim.com/sorbertextile-sta



GLASS FIBER FABRIC ST 1 and ST 55

ST 1 and ST 55 : FIBER GLASS COATED INSULATION FABRIC ON MINERAL WOOL

Material : Fiberglass

Usage: thermal insulation material, non-combustible, chemically resistant.

No exposure to water corrosion.

Its durability, corrosion and deterioration resistance is certified by DNV.

It is also approved by DNV for being resistant to 450° C heat.

www.vizyonendustriyelyalitim.com/st-1-ve-st-55-cam-elyaf-kaplamali-mineral-yun-uzeri-yalitim-kumasi 



CERAMIC FIBER FABRIC

CERAMIC FIBER FABRIC 900° C / WIRE REINFORCED

It is a product, produced from ceramic fiber yarns and suitable for high temperature use.

www.vizyonendustriyelyalitim.com/seramik-elyaf-kumas-900-c-tel-takfiyeli 



POLYURETHANE COATED GLASS FIBER FABRIC POLYURETHANE COATED FIBER GLASS FABRIC 400° C

The product obtained by coating polyurethane on glass fiber, provides high resistance to oils and solvents.

www.vizyonendustriyelyalitim.com/poliuretan-kapli-cam-elyaf-kumas-400-c 

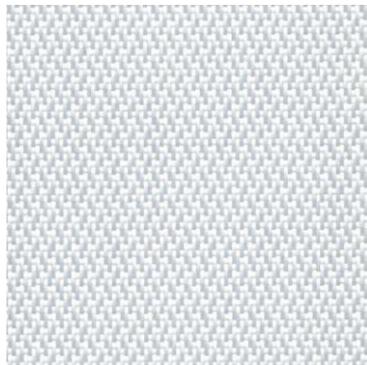


ALUMINUM COATED GLASS FIBER FABRIC

It is an aluminum coated glass fiber fabric. Please contact for detailed information. (For different sizes and features)

www.vizyonendustriyelyalitim.com/alm-gc-aluminyum-kapli-cam-elyaf-kumas 

GLASS CLOTH

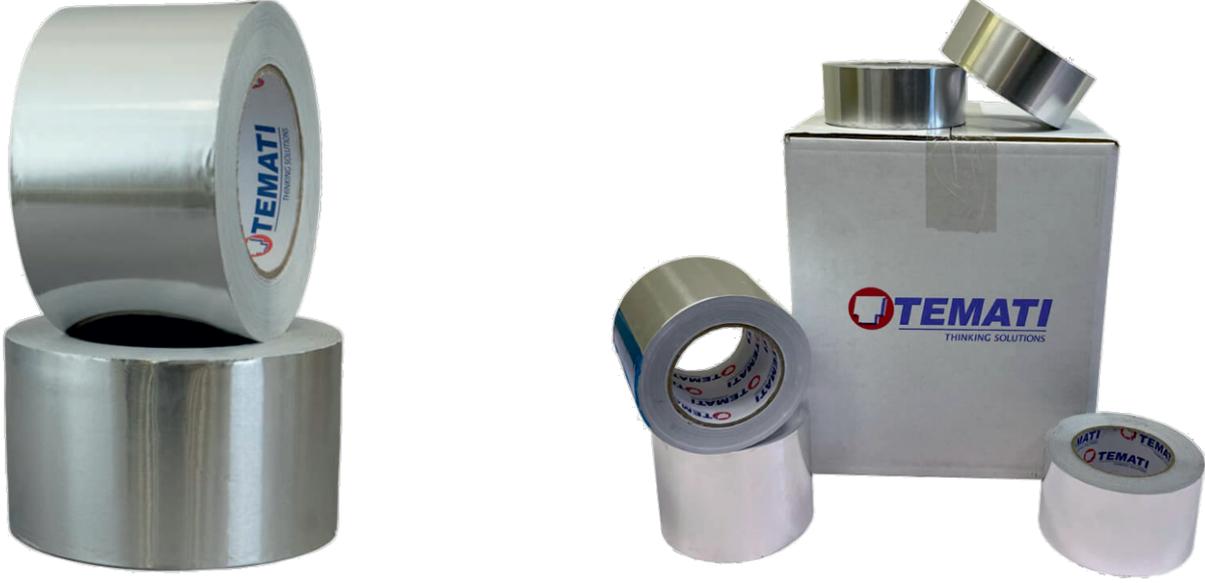


Material: glass fibre

Use: joining insulation materials covered with glass cloth. The products are easy to apply, exhibiting instant adhesion and can be shaped to any profile. The product is MED certified.

Availability : in stock

TEMATI TEMFOIL-IMO ALUMINUM TAPE



A soft aluminium tape coated with a long lasting, ultra violet resistant, cold weather acrylic adhesive. Available in 50, 75 and 100mm width with a roll length of 100 meters. One side is lined with a white release Kraft paper - showing the official IMO steering wheel and ECB Notified Body number - to protect the adhesive face.

Technical Specifications

Minimum Temperature	: - 40
Maximum Temperature	: 120
Medium/vessel temperature	: Yok
Suitable for indoor or outdoor use	: Dış Mekan
Brand	: Temati
Colour	: Alüminyum

<https://www.temati.com/product/temfoil-imo-aluminum-tape/> 

VENTILATION PRODUCT LINE

MARINE HVAC ACOUSTIC SOLUTIONS



BENDABLE CIRCULAR MUFFLER

The inner insulation material is equipped with a special non-flammable mineral wool. It is classified according to EN 1506 or EN 13180. The air tightness of the stem is in accordance with EN 1572, class D.

It is produced between \varnothing 100 mm and 400 mm. Max. Allows a flow rate of 8000 m³/h

It is produced between \varnothing 100 mm and 400 mm. Max. Allows a flow rate of 8000 m³/h



SILENT FAN

Low profile, "mixed flow" fans with sound absorbing insulation. They are known to be extremely quiet. Models TD-350, TD-500, TD-800, TD-1000 and TD-2000 are approved and certified by the Noise Abatement Society. The inner wall has a special porous design that directs the sound waves towards the sound absorbing material.

Motor speed is adjustable, double speed, IP 44, 230V-50Hz motor. The motors have ball bearing and overload protection and are class B. (1) Except TD-160 SILENT.

T35, VENTILATION DUCT INSULATION SYSTEMS



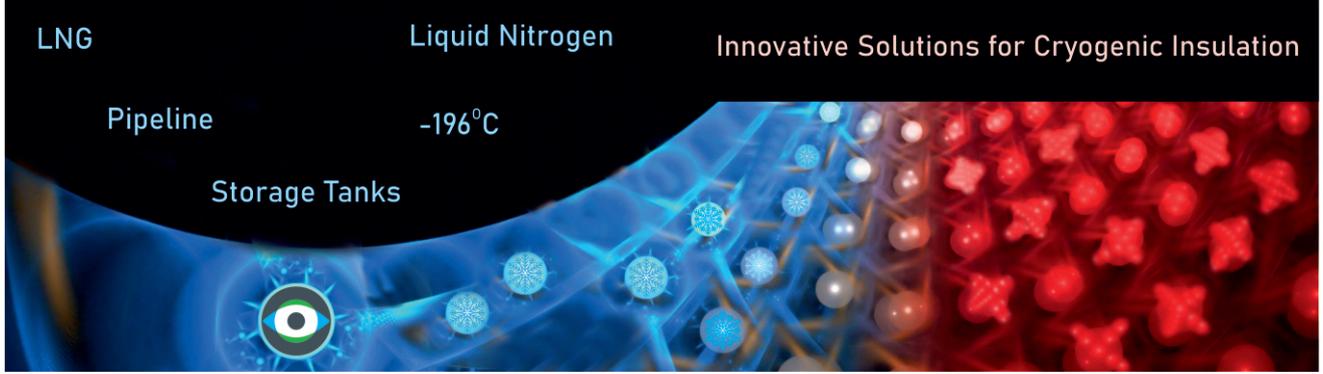
WATER-BASED, SPRAYABLE THERMAL COATING

Decicoat™ T35 is a water-based spray-on thermal insulation coating specially formulated with anti-condensation and corrosion protection properties. It has been developed to meet market requirements in the rail, off-shore, marine, chemical, petroleum, automotive and construction industries.

Unlike traditional insulation materials like glass wool or mineral fibre, Decicoat T35, being sprayable, provides a seamless application with 100% coverage. This means Decicoat T35 successfully prevents thermal bridging. With excellent adhesion to most metals, Decicoat T35 bonds flush with substrates even around uneven surfaces. Depending on the application requirement, it can be used as an independent solution, or to complement other insulation



INNOVATIVE SOLUTIONS FOR CRYOGENIC ISOLATION



VIZYON[®]
ENDÜSTRİYEL



Production and General Center
Vizyon İnovatif Yalıtım Enerji Müh. Ltd. Şti.
Postane Mah. Yalıboyu Cad. No: 81/A
Tuzla İstanbul / TÜRKİYE
Telefon: +90 216 446 00 04
E-mail: info@vizyonendustriyelyalitim.com
SILENCE FOR SAFETY AND COMFORT