

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. www.vizyonendustryelyalitim.com

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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 efectively, 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 🥎



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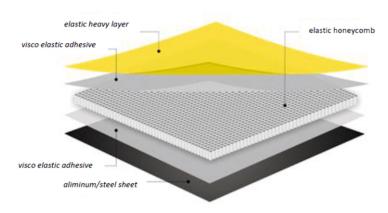
DECIDAMP DC 30

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_1 500









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.



MDT® consists of a combination of a honeycomb attached to a thin layer of aluminum or steel with a viscoelastic adhesive and a self-adhesive high density polymer-based heavy layer on top. MDT® is designed as self-adhesive for easy and fast application.

Technical Data

MDT Properties	
Material	Aluminum
	EN AW 1050
	Steel
	Coated Steel
Dimensions	200 x 300 mm (+/- 5)
	Other dimensions are available on request
Thickness	6,3 mm (steel)
	6,8 mm (aluminum) (+/- %2)
Coating/Color	Plain
Weight	9,6 kg/m² (Steel)
	8,5 kg/m² (Aluminum)

 $\verb|https://www.noisedampingsolution.com/products-and-applications| $\underline{\mathscr{Y}}$|$









DECIDAMP DC 06

Decidamp® DC06 is a water-based, two-component damping product with excellent viscoelastic damping properties that provide significant reductions in structure-borne noise. The product is suitable for use in numerous applications, especially in marine environments such as bulkheads and decks.

www.pyroteknc.com/products/decidamp/decidamp-dc06/ 5

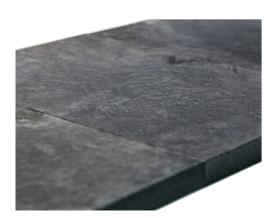


This product is a two-component, polyurethane based, vibration damping compound, which is used for floor applications and developed for marine and offshore industries in order to decrease the structural noise and vibration, also for meeting the market demand. It is viscoelastic, light and mostly used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

www.vizyonendustriyelyalitim.com/decidamp-slc 📉







DECIDAMP TILE

Decidamp® Tile is a high performance structural damping product that is designed in order to reduce vibration resonance in thick panel structures. It was developed to meet market requirements in the industrial, marine, rail and heavy vehicle industries, and also formulated by using a blend of next-generation polymer compounds that provide exceptional damping over a wide temperature range from 10 to 50°C.

www.pyroteknc.com/products/decidamp/decidamp-tile 📉



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.

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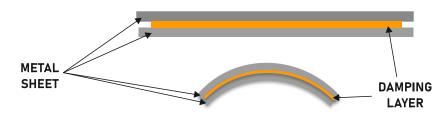


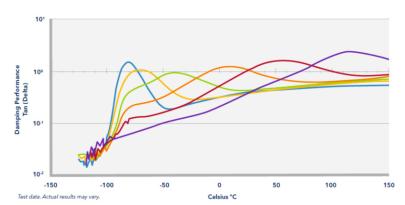
NDS® COMPOSITE PANEL (STEEL & ALUMINUM)



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 in the figure.

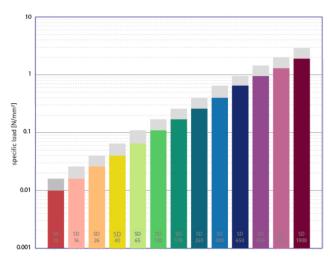
Technical Data

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/m³ (Steel)
	2600 kg/m³ (Aluminum)



VIBRATION CONTROL PRODUCT LINE



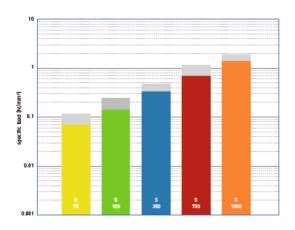




VIBRAFOAM

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 🔊



NDS PANEL MOUNTING MATERIALS







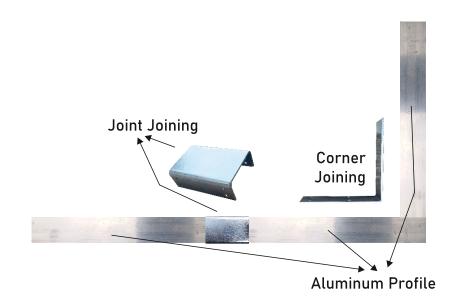
İnsulator



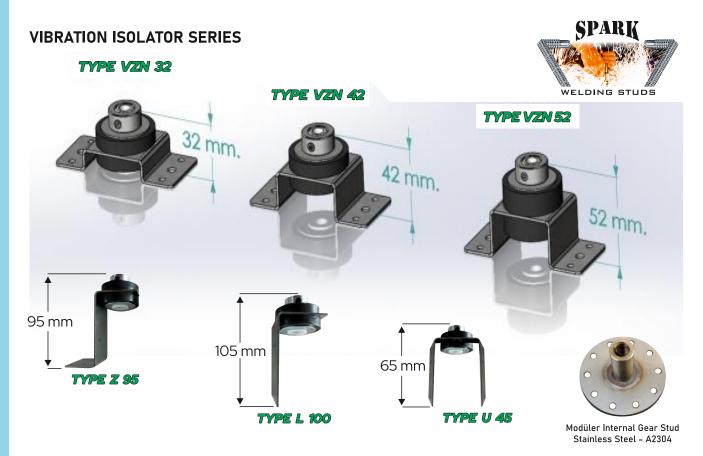
Modüler Internal Gear Stud Stainless Steel - A2304



Elastic Adhesives







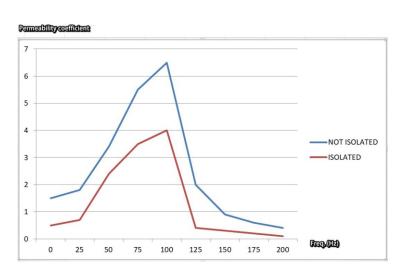
VZN-VIBRATION ISOLATOR / M8 TYPE: VZN 32, 42, 52, L, Z and U Anti vibration mount adjustable, for interiors and mechanical rooms

- 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: Galvanized steel (2mm) Rubber hardness: Standart 50 Shore / Or in

desired hardness

Standard Building Heights: 32 42 and 52 MM

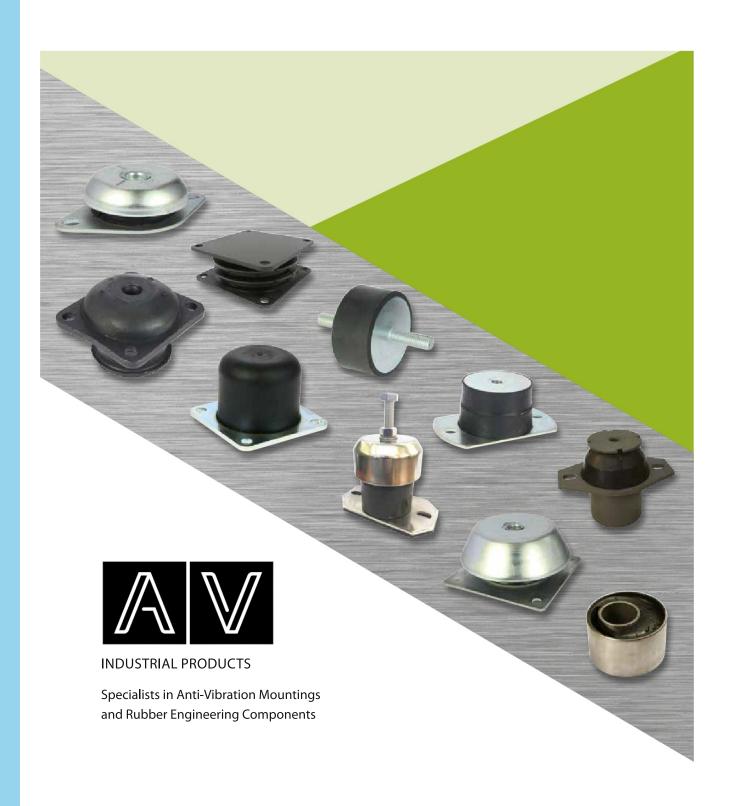


Vibration frequency should be less than the natural frequency of the system. An increase in the stiffness of the wedges increases the natural frequency and leads to a decrease in the dimensionless frequency ratio, in addition, an increase in the damping coefficient also reduces the resonance amplitude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

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











Cylindrical Bobbins	-		-	1	-
Buffers & Bump Stops					
Captive Transit Mountings		6		0	
Silent Marine ™ Mountings	9				
Flanged Circular & SL Mountings					
Turret & Flanged Mountings					
Cast Foot, Sandwich & Rail Mountings	T				
Levelling Feet & KG Block					
Spring, Hangers & Rope Mountings	\$		W		
Instrument & General Mountings	S		-	1	
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Industrial Products Ltd

Instrument & General Mountings		9			
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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		8			
IOS, Eccentric & Spherical Bushes					
Custom & Miscellaneous			7		



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 : VİZYON SOUND PANEL HL (4-4-4) 1.20 X 2.42 M	12 MM.	MASS LOADED HEAVY LAYER	1778 Kg./m3	33 Kg	16.2
VSP HL 18 : VİZYON SOUND PANEL HL (6-6-6) 1.20 X 2.42 M	18 MM.	MASS LOADED HEAVY LAYER	1778 Kg./m3	49 Kg	19.0
VSP HL 22 : VİZYON SOUND PANEL HL (8-6-8) 1.20 X 2.42 M	22 MM.	MASS LOADED HEAVY LAYER	1778 Kg./m3	57 Kg	19.3
ACM 650 CR 12 : VİZYON SOUND PANEL CR (4-4-4) 1.20 X 2.42 M	12 MM.	CORK RUBBER	650 Kg./m3	20,6 Kg	15.5
ACM 950 CR 18 : VİZYON SOUND PANEL CR (6-6-6) 1.20 X 2.42 M	18 MM.	CORK RUBBER	650 Kg./m3	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./m3	39,50 Kg	22.1
ACM 950 CR 26 : VİZYON SOUND PANEL CR (10-6-10) 1.20 X 2.42 M	26 MM.	CORK RUBBER	650 Kg./m3	43,50 Kg	22.1

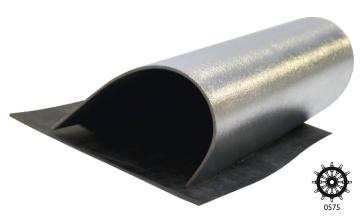


FLOATING SYSTEM ACOUSTICAL SEALANT

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.



ACOUSTIC CONTROL PRODUCT LINE

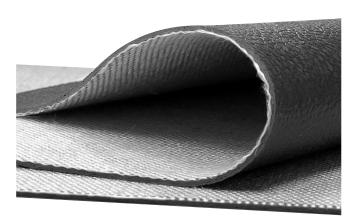


QUADZERO NL

It is a high performance heavy noise barrier which is foil coated and mass loaded vinyl that offers high quality acoustic transmission loss and increased fire resistance. Fire resistant and foil coated Quadzero ™ NL was developed by Pyrotek, in order to meet the strict fire safety requirements in the marine, construction and transportation industries. In the topic of low flame spread, the product achieves the highest fire ratings alongside with the International Maritime Organization standards, as well as British, German, American and Australian building and transportation standards for heat dissipation, toxicity and flame spread properties.

www.vizyonendustriyelyalitim.com/quadzero-nl





WAVEBAR MIL

It is a high performance, flexible, mass-loaded vinyl noise barrier that is combined with a fiberglass fabric. It is designed for the military and naval industry, in accordance with MIL-PRF-24699A (SH). Wavebar is a dense, thin, highly flexible and tear-resistant noise barrier which has perfect fire and thermal insulation. The Wavebar MIL which is designed with the original Wavebar soundproofing features and added "flame-shield", is approved for use in military vehicles and navy ships

www.vizyonendustriyelyalitim.com/wavebar-mil





STANDARD HEAVY SOUND BARRIERS

VZN-HL. 6 mm

VZN-HL. 4 mm

VZN-HL. 2 mm







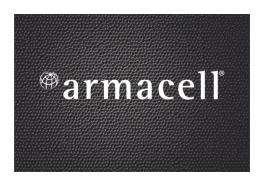
VISCO ELASTIC DAMPING BARRIER (SUPER SILEND HL)

SUPER SILEND HL 100 : (5 mm) 2000 kg / m³ SUPER SILEND HL 70 : (3,5 mm) 2000 kg / m³ SUPER SILEND HL 50 : (2,5 mm) 2000 kg / m³ SUPER SILEND 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.

www.vizyonendustriyelyalitim.com/uploads/pdf/SUPER-SILENT-HL.pdf $_{\Sigma}$





- 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/Asses	sment						Test*1	Special Remark
Temperature Range									
Temperature Range ¹	max. service	temperature		+80	°C				Tested acc. to EN 14706,
	min. service t	emperature		-20 °	С				EN 14707 and EN 14304
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
	ArmaComfort	® Barrier P		IMO	MED B Approva	al			(2006) FTP 2010 Annex 1 Part 5
Acoustic Performance)								
	Weighted Sou	und Reduction I	ndex in accorda	ance with ISO 1	0140-2				
Calculated broadband insertion	Arma Comfort®	mm	1 mm	2 mm	3 mm	4 mm	5 mm	EU 7083 EU 7093	Tested acc. to EN ISO 10140-1: 2016
loss	Barrier P	Rw (dB)	23 (-1;-4)	27 (-1;-3)	30 (-1;-4)	32 (-1;-3)	34 (-1;-3)	EU 7092	
Other technical featur									_
Density	ArmaComfort	® Barrier P	kg / m³		≥ 2	2050			
Dimensions and tolerances	In accordance without adhes		, table 1: Toler	ance of max. 2	mm (width of th	e sheets or rolls			Tested according to EN 822, EN 823, EN 13467
Storage & Shelf life	Self-adhesive	e 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







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/ 5/20



"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~~2000 and the control of the control



SOUND ABSORBERS PRODUCT GROUP



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 Colth) 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 m









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 $^{\mathbb{B}}$ with the high absorption properties of Sorberfoam $^{\mathbb{T}}$. 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_1 250



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-SILENT 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 1,1.2 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.vizyonendustriyelyalitim.com/uploads/pdf/SILENT_PERFORATED_ALU.pdf





THERMAL BARRIER AND CONDENCATION 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: $0.027 \text{ W} \text{ (m}^2/\text{K)}$

PHYSICAL PROPERTIES

- \bullet 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









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



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 Vatral® 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 5



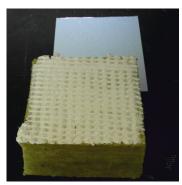




VATRAL 1030 - FIRE PROTECTION ADHESIVE

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 5





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 5

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.

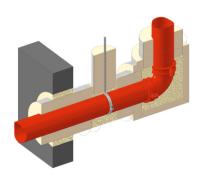
Vatral[®] Diaphan is based on modern hybrid binders. Due to the consistent reduction of the organic content in the binder, Vatral[®] Diaphan is particularly suitable where the fire load is to be kept low or where requirements are placed on the behavior in fire.

https://hsmc.de/en/shipbuilding/#1648485097450-ed745f73-3492 5

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 successfuly used for the applications at which other grades of Nefalit and Millboard to be used.



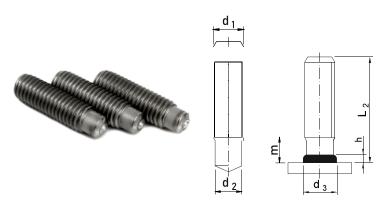
Nefalit 16: Ceramic fiber based product with a classification temperature of 1200 °C. It is asbestos free, has a density of 1000 kg/m3 and tile red in colour. With a shrinkage value of lower than 4% at 1150 °C, it is used at high temperature insulating applications due to its high abrasion resistance.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



SPARK WELD STUDS



THREADED STUD TYPE RD, PD, UD and DD

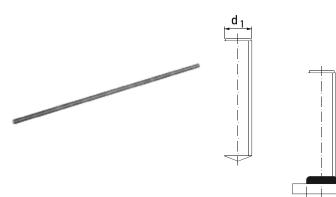


Material: stainless steel, steel 4.8 and alum 6082-6061.

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)

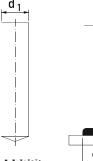
Logistic minimum: 100 pcs/package



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)

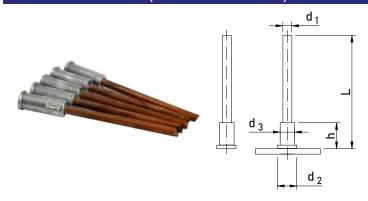
Availability: on request (limited stock)
Logistic minimum: 100 pcs/package





ISOLATION NAILS

BIMETAL PIN VBS (ALUMINIUM AREA)



Material: copper covered steel, stainless steel 1.4301 (aluminiumending)

Use: assemblingtheinsulationonaluminiumsurfacesin the marine and land industry. Bimetal pins are made ofheat-sealable wire in diameter Ø3mm.

Logistic minimum:

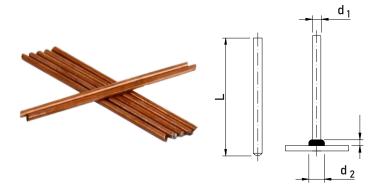
25mm - 40mm - 2000 pcs./package 50mm - 100mm - 1000 pcs./package from110mm- 500 pcs./package

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

INSULATIONPIN



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 $\emptyset 2mm$ to $\emptyset 5mm$

Availability:

on request

Logistic minimum:

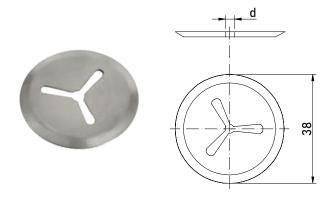
25mm - 50mm - 2000 pcs/package 60mm - 150mm - 1000 pcs/package from 160mm - 500 pcs/package

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

 $www.vizyonendustriyelyalitim.com/uploads/pdf/VIZYON_WELD_STUDS.pdf ~\roothood{2}$



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

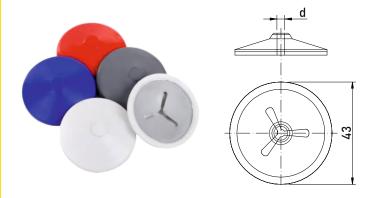
It is produced in 40 mm, 80 mm, 120 mm, 140 mm and 160 mm lengths.

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.vizyonendustriyelyalitim.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 m







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 🛫



TAPE PRODUCT LINE



TAPE GC 120 MARINE

The Tape GC120 Marine is a pressure sensitive fabric-coated thermal insulation adhesive tape, designed for marine applications. It is combined with high performance solvent acrylic silicon paper that can easily come off.

TAPE WIDTH OPTIONS: 50 mm, 75 mm and 100 mm

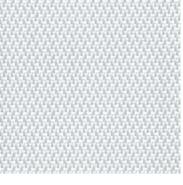
It is the most economical fabric tape that meets IMO standards and has valid approval certificates.

www.vizyonendustriyelyalitim.com/tape-gc-120-marine



TAPE ST 1 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

 $\verb|https://www.temati.com/product/temfoil-imo-aluminum-tape/ \verb|gmainle||$



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 Ø100 mm and 400 mm. Max. Allows a flow rate of 8000 m³/h It is produced between Ø100 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



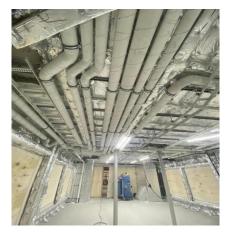




WATER-BASED, SPRAYABLE THERMAL COATING

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

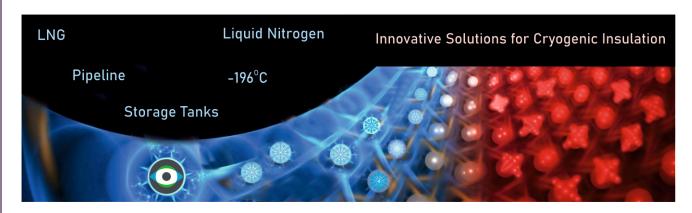








INNOVATIVE SOLUTIONS FOR CRYOGENIC ISOLATION







Production and General Center Vizyon İnovatif Yalıtım Enerji Müh. Ltd. Şti.

Postane Mah. Yaliboyu Cad. No: 81/A

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E-mail: info@vizyonendustriyelyalitim.com SILENCE FOR SAFETY AND COMFORD