VİZYON ENDÜSTRİYEL

VİZYON 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
Tel : +90 532 696 45 17
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 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



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

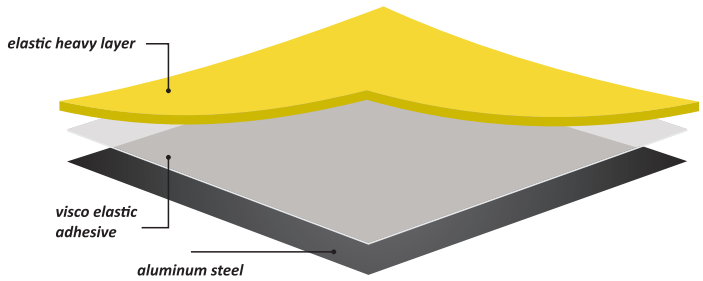
This product is a two-component, polyurethane based damping paste with perfect viscoelastic damping properties, and it also significantly decreases the air sound which radiates from the structure. It works best on a limited layer (sandwich system). This product, that performs great under a wide range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

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

MDT

2690

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)

https://www.noisedampingsolution.com/products-and-applications



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/



DECIDAMP SLC

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.

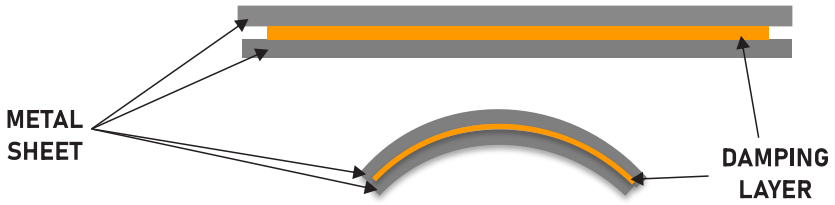
It is a constrained (reduced) layered metal composite. NDS is a damped aluminum composite consisting of two layers of aluminum laminated together using a layer of viscoelastic polymer to form its laminate. It is used as a noise-damping panel product in many sectors.

www.vizyonendustriyelyalitim.com/uploads/pdf/NOISE-_DAMPING_STEELS.pdf

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. Continious 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

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)

https://www.noisedampingsolution.com/products-and-applications

NDS PANEL MOUNTING MATERIALS



NDS Panel





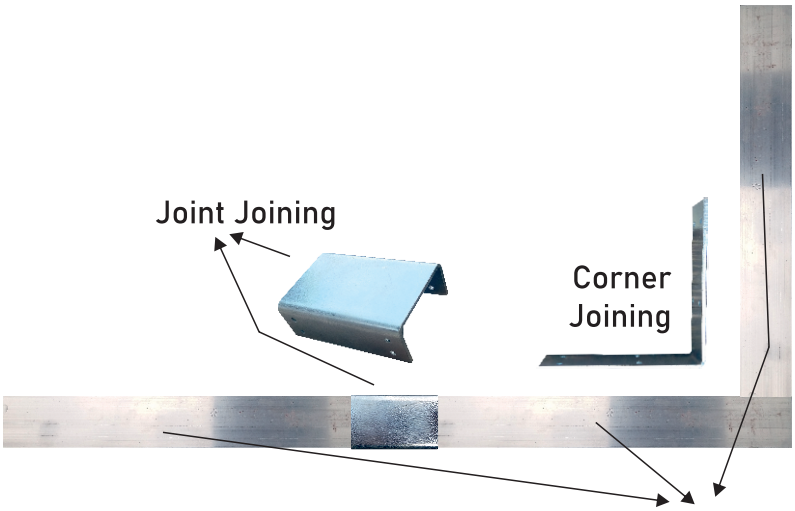
İnsulator



Modular Internal Gear Stud
Stainless Steel - A2304

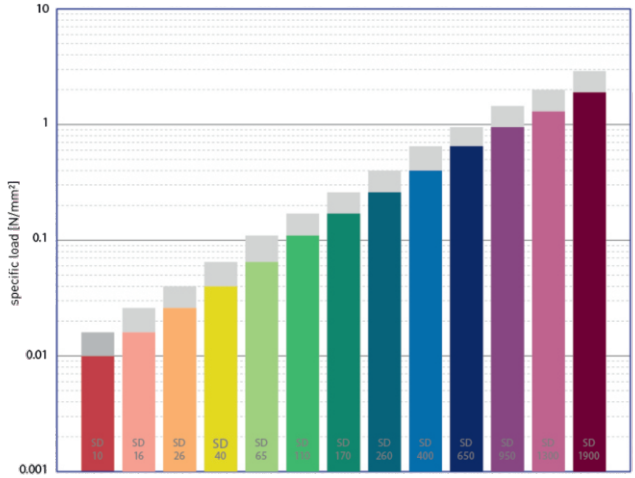


Elastic Adhesives



Aluminum Profile

VIBRATION CONTROL PRODUCT LINE

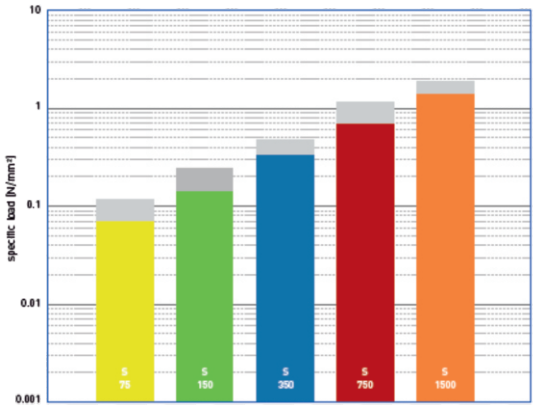




VIBRAFOAM

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.

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



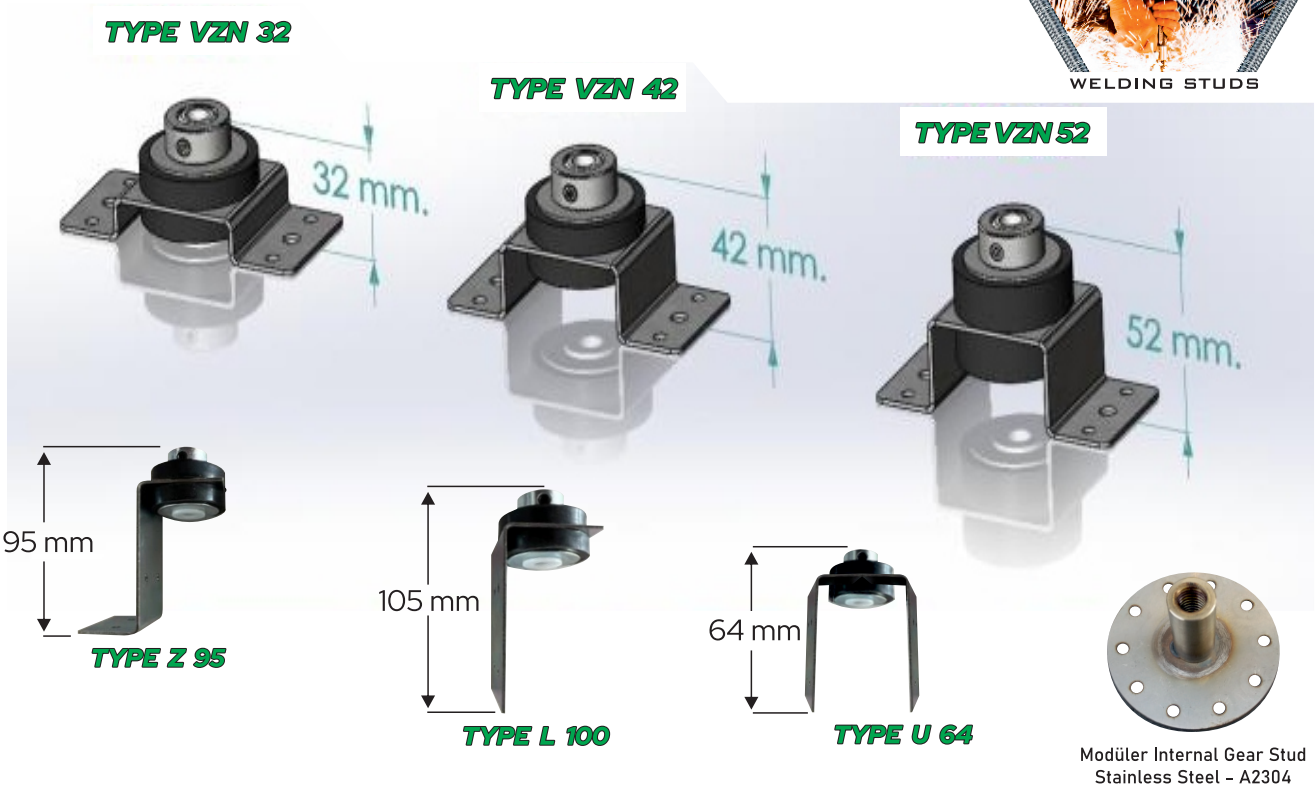
VIBRADYN

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

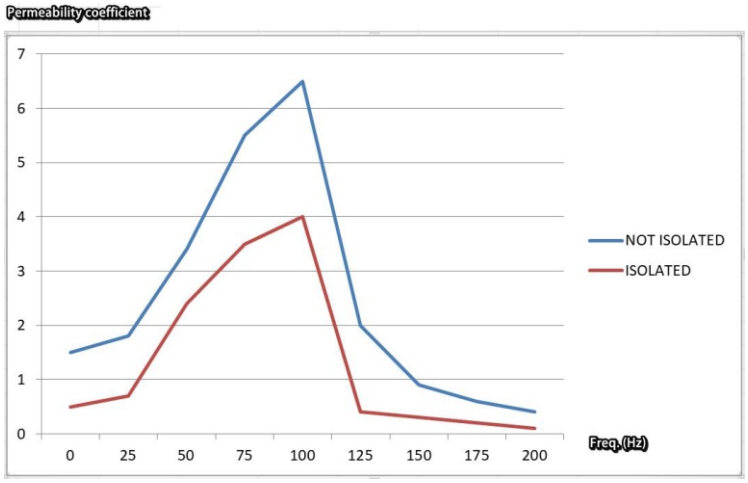


Modüler Internal Gear Stud
Stainless Steel – A2304

VZN-VIBRATION ISOLATORS / 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

VİZYON®
ENDÜSTRİYEL



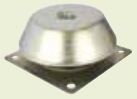
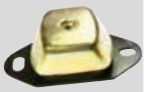
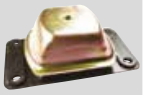
AV

INDUSTRIAL PRODUCTS

Specialists in Anti-Vibration Mountings
and Rubber Engineering Components

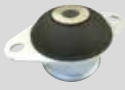
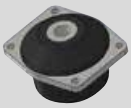
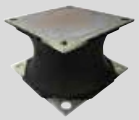
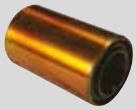
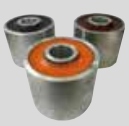
VİZYON ENDÜSTRİYEL

AV Industrial Products Ltd

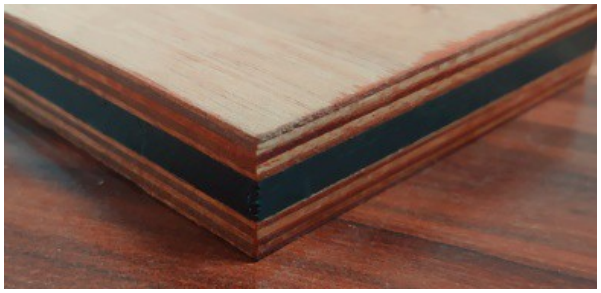
Cylindrical Bobbins						
Buffers & Bump Stops						
Captive Transit Mountings						
Silent Marine ™ Mountings						
Flanged Circular & SL Mountings						
Turret & Flanged Mountings						
Cast Foot, Sandwich & Rail Mountings						
Levelling Feet & KG Block						
Spring, Hangers & Rope Mountings					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

VİZYON ENDÜSTRİYEL

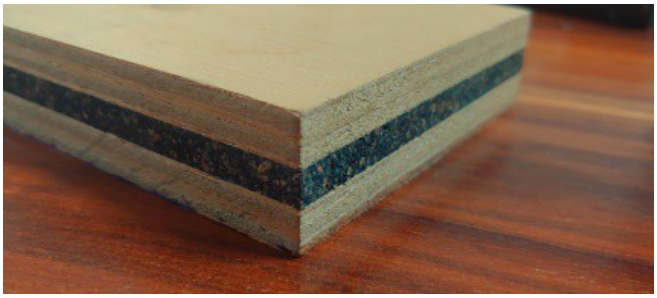
AV Industrial Products Ltd

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						

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 : VİZYON 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.

www.vizyonendustriyelyalitim.com/uploads/pdf/VIZYON_IMPACT_SOUND_ABSORBENT_PLYWOOD_COMPOSITE_PANELS_TDS_REV2.pdf

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 Panel thickness Panels joint [1)]	mm	A0 Bulkhead 19 Solid spline	A60 Bulkhead 19+19 with 10mm air gap 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 Maximum	 % %	 < 5 (at despatch) < 12		
Bending strength (oven dry, EN 12467)	N/mm ^{2}	> 2.2		
Compressive strength (oven dry, EN 12467) 5% deformation 10% deformation	 N/mm ^{2} N/mm ^{2}	 5 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 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

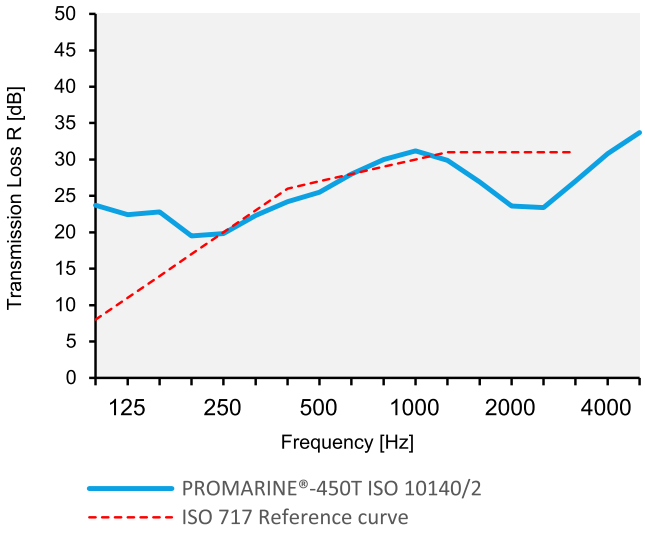
Refer to local legislation. If not available: The board is not classified as a dangerous substance and so no special provisions are required regarding the carriage and disposal of the product to landfill.

Storage

Store on a flat surface, in a dry area.

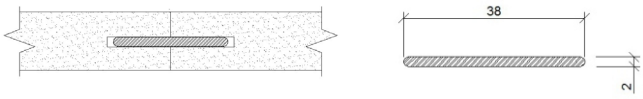
Acoustic properties

19mm, Rw=27 [dB]

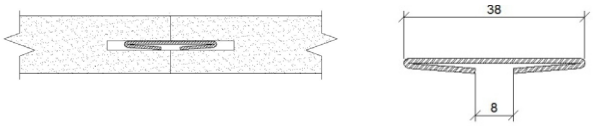


Class divisions – joint drawings

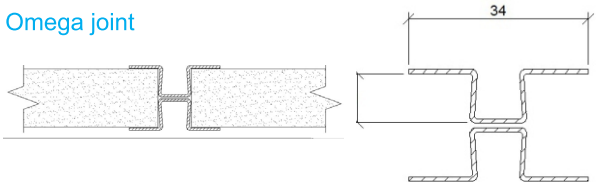
Solid spline



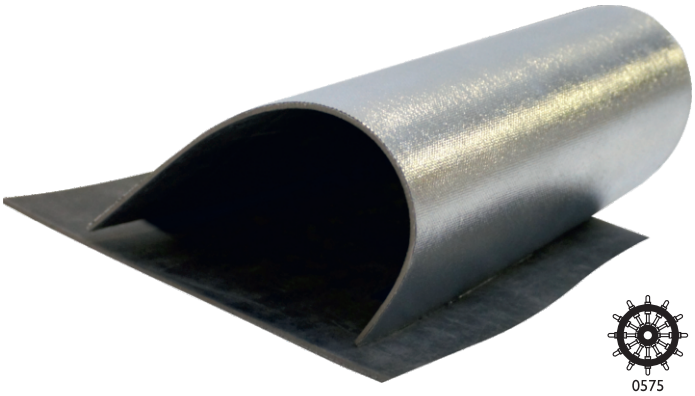
"C" spline



Omega joint



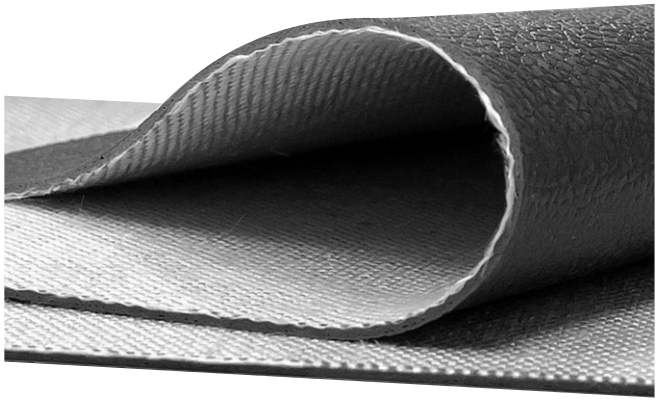
ACOUSTIC CONTROL PRODUCT LINE



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

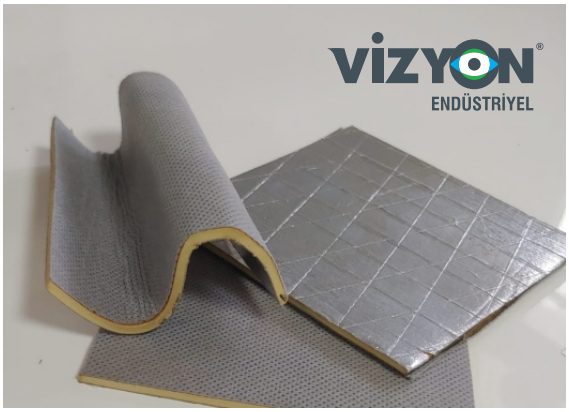
www.vizyonendustriyelyalitim.com/wavebar-mil



STANDARD HEAVY SOUND BARRIERS

VZN-HL. 6 mm
VZN-HL. 4 mm
VZN-HL. 2 mm

SUPER® SILENT HL



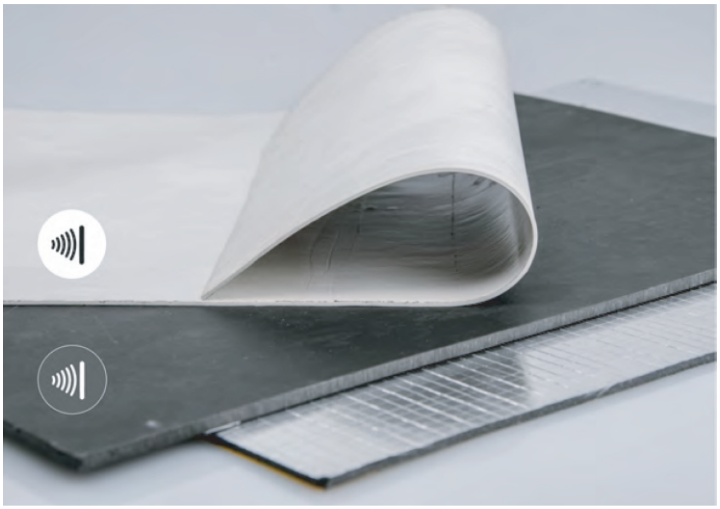
VISCO ELASTIC DAMPING BARRIER (SUPER SILEND HL)

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

armacell®



- 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									
	Weighted Sound Reduction Index in accordance with ISO 10140-2								
Calculated broadband insertion loss	Arma Comfort®	mm	1 mm	2 mm	3 mm	4 mm	5 mm	EU 7083 EU 7093 EU 7092	Tested acc. to EN ISO 10140-1: 2016
	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.

https://local.armacell.com/tr/armacell-turkiye/



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/



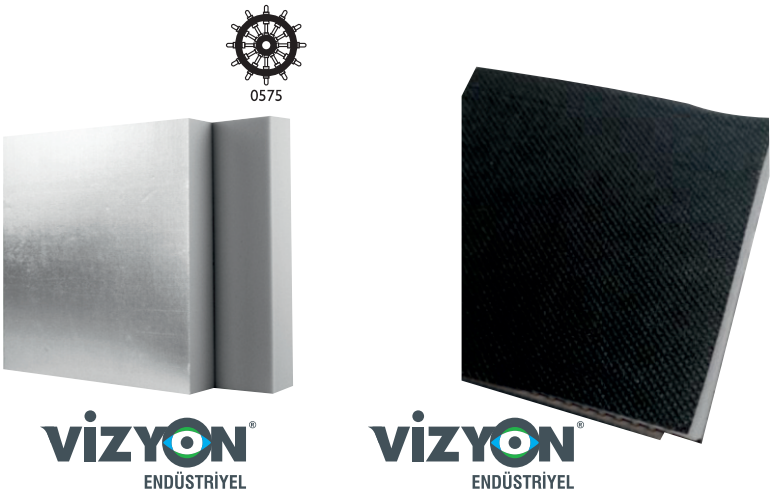
"DAMTEC STANDARD" RUBBER CORK MATERIAL

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



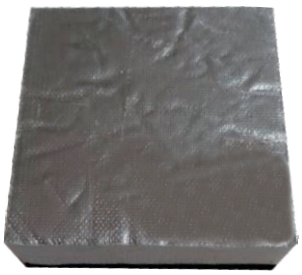
SORBERMEL

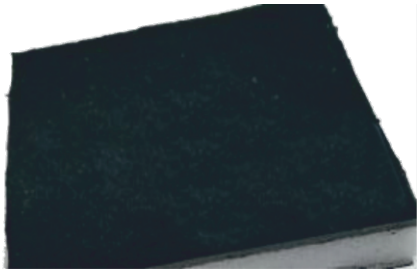
İt isa flexible, lightweight, open-celi, light gray foam that is made of melamine resin. With a high degree of flame retarding, excellent sound absorption and thermal insulatlon properties, Sorbermel is dimensionally stable and harder than polyurethane foams. It is preferred in weight sensitive applications. Sorbermel achieves some of the highest classificatlons 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, İt 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





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



SILENT PERFOATED ALU®

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

İt isa 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. Ihe boards have a powder coat finish of white or desired color which provides corrosion resistance. Ihe 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.
DIMENSİONS: 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. lt is produced asa 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

ROCKWOOL





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

VİZYON ENDÜSTRİYEL

VİZYON ENDÜSTRİYEL

VİZYON AEROGEL BLANKET



VİZYON ENDÜSTRİYEL

VİZYON 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

VİZYON ENDÜSTRİYEL

1100 °C

VİZYON MIKROPOROUS® PANELS



VM BOARD 1000 °C



VM FLEXIBLE 1000 °C

VİZYON 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.

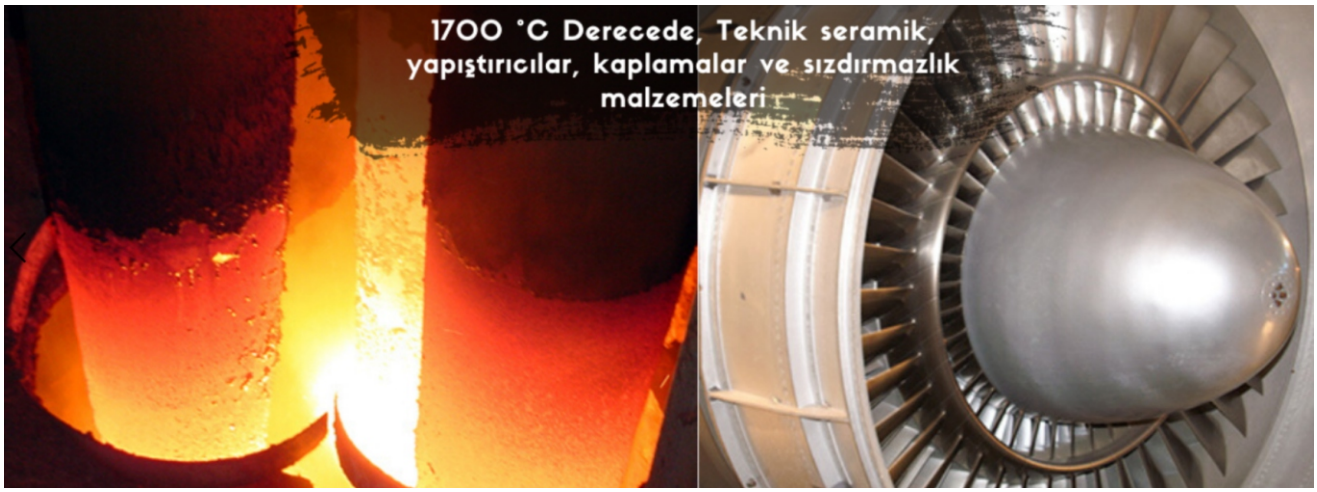
THERMAL CONDUCTIVITY OF INSULATING COMPOUND VM 17 (TWO-PLATE METHOD)

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/yuksek-isi-1000-c-sivi-kivamli-yalitimi-vm-17

VİZYON ENDÜSTRİYEL

AREMCO





MATERIALS

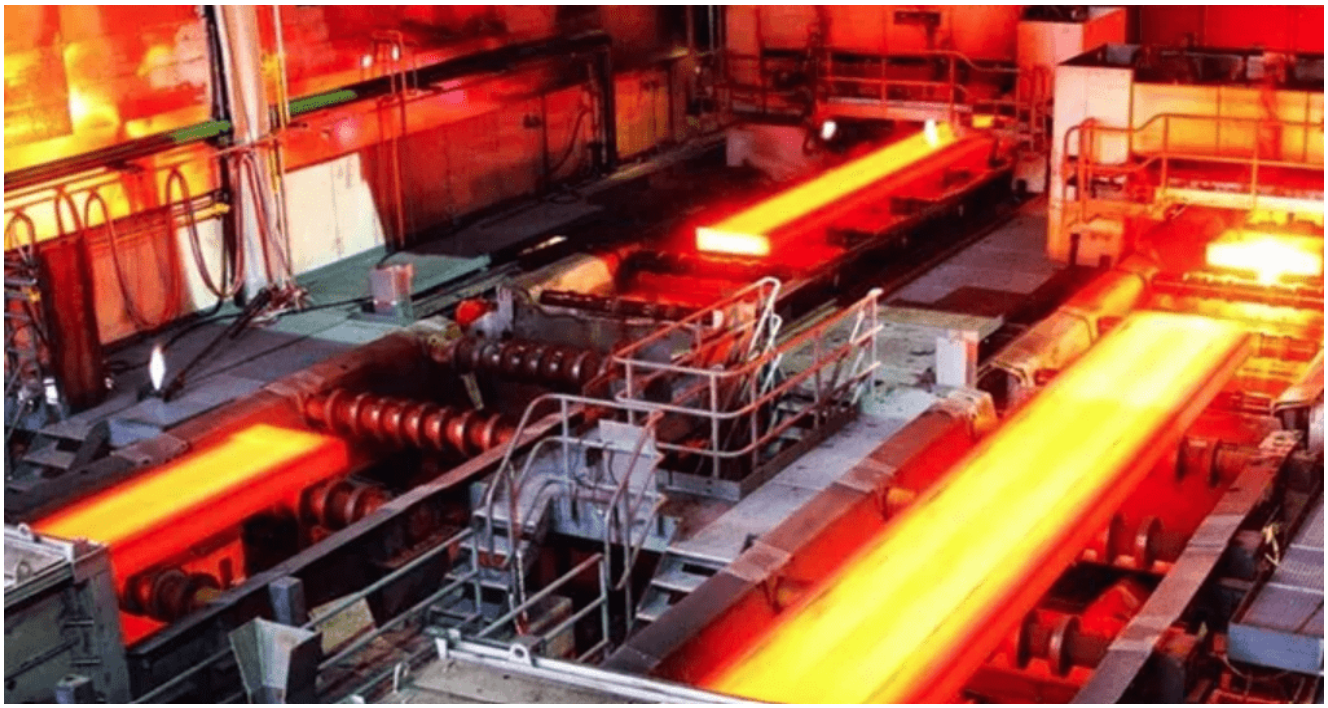
Aremco's advanced material division is a leader in the development and production of technical ceramics, adhesives, coatings, sealants and potting compounds for applications to 3200 °F. These materials are used throughout industry in the design of sensors, electrical components and analytical instruments.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

www.aremcoturkiye.com/teknik-dokumanlar

VİZYON ENDÜSTRİYEL

HSMC TECHNICAL INSULATION AND INNOVATIVE PRODUCTS

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.





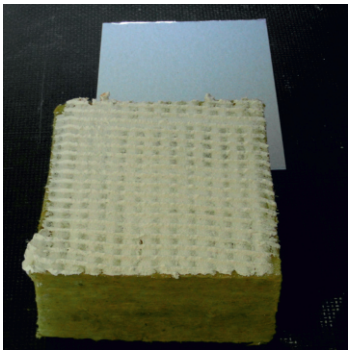


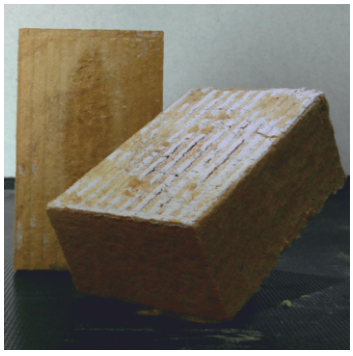
https://hsmc.de/en/shipbuilding/#1489615225736-b13979c1-ba5c

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.





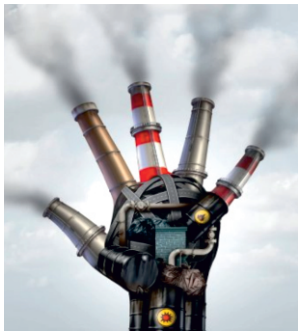


https://hsmc.de/en/shipbuilding/#Vatral-125-150

HSMC TECHNICAL INSULATION AND INNOVATIVE PRODUCTS

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

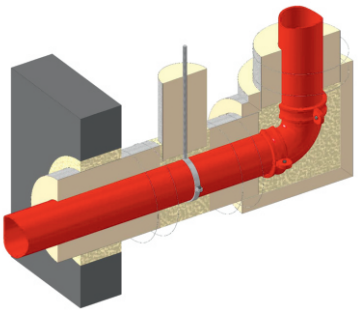
Vatral® Diaphan is an organic/inorganic, water-based, solvent-free composite dispersion with high initial adhesion and bonding strength. Vatral® Diaphan is suitable for moist areas.
Vatral® Diaphan is based on modern hybrid binders. Due to the consistent reduction of the organic content in the binder, 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

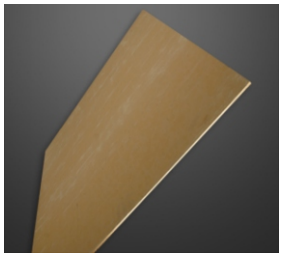
The Vatral® SP system is the system for cladding dry and wet sprinkler pipelines, including their penetrations through solid structural elements. It differs from existing types of construction in terms of design as well as materials, installation and functioning. The Vatral® SP system is based on the 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





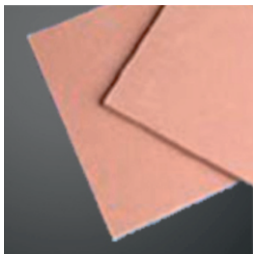
Nefalit 5: Mineral fiber-based, asbestos-free board with a classification temperature of 750 °C. It has a yellow/beige colour and 950 kg/m3 density value. After exposed to 750 °C for 24 hours, the shrinkage value of Nefalit 5 is less than 2%.



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

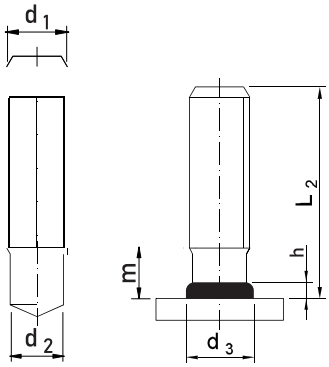


Nefalit 16: Ceramic fiber based product with a classification temperature of 1200 °C. It is asbestos free, has a density of 1000 kg/m3 and tile red in colour. With a shrinkage value of lower than 4% at 1150 °C, it is used at high temperature insulating applications due to its high abrasion resistance.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

SPARK WELD STUDS

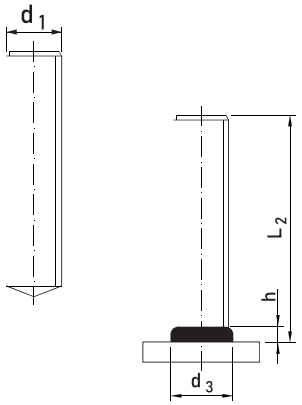
THREADED STUD TYPE RD, PD, UD and DD





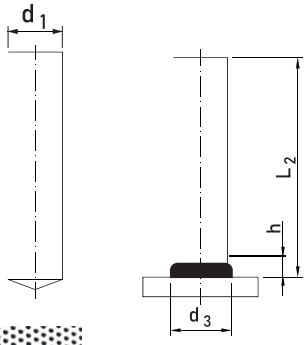
Material: stainless steel , steel 4.8 and alum 6082-6061.
Use: threaded mounting studs with undercut threads and shafts come ina wide range of applications in the marine and land industry. ISO 13918
Availability: on request (limited stock)
Logistic minimum: 100 pcs/package



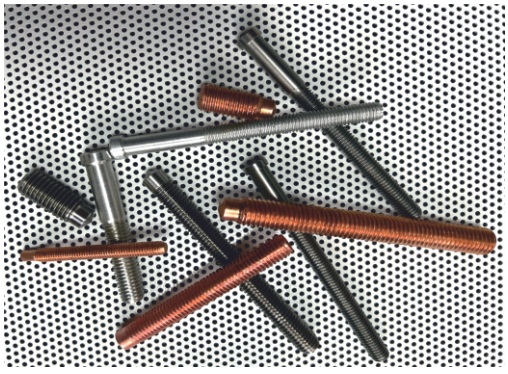


Material: stainless steel and steel 4.8
Use: mounting studs are fully threaded and usable in a wide range of marine and land industry.
Availability: on request (limited stock)
Logistic minimum: 100 pcs/package





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

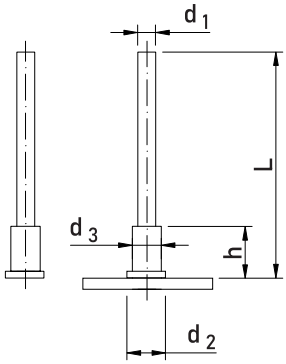


www.vizyonendustriyelyalitim.com/uploads/pdf/VIZYON_WELD_STUDS.pdf

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.

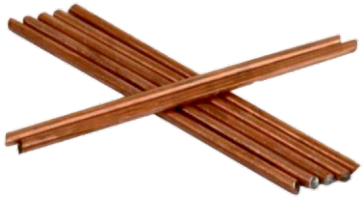
Logistic minimum:
25mm – 40mm – 2000 pcs./package
50mm – 100mm – 1000 pcs./package
from110mm– 500 pcs./package

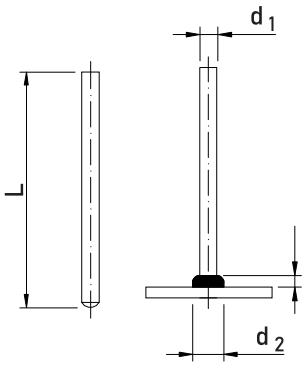
ALUMINUM CAPSULE INSULATION NAIL

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 Ø2mm to Ø5mm

Availability:
on request

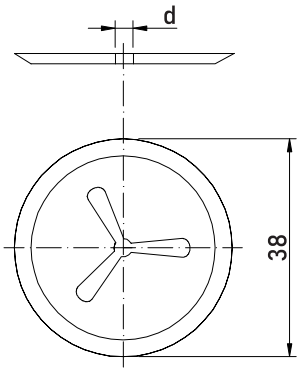
Logistic minimum:
25mm – 50mm – 2000 pcs/package
60mm – 150mm – 1000 pcs/package
from 160mm – 500 pcs/package

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

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.

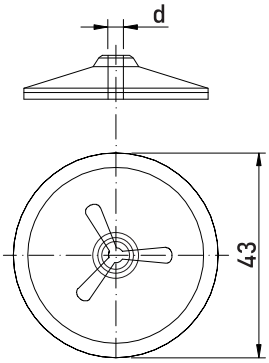
Nail wall thickness: 3 mm

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



0575

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.
İt 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

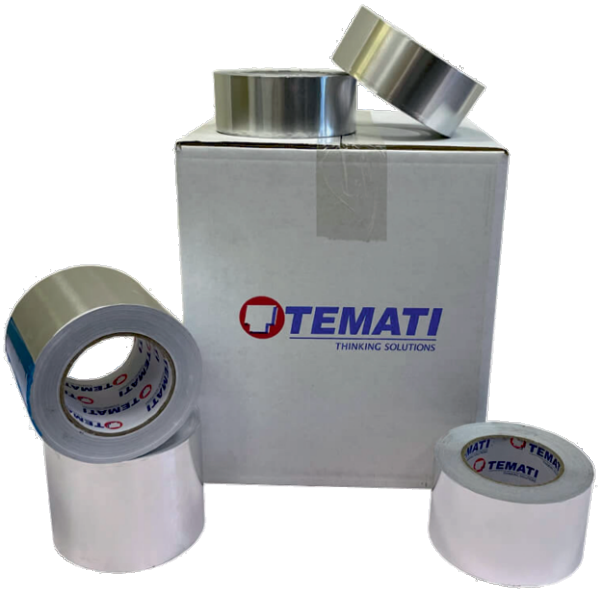




Material: glass fibre
Use: joining insulation materials covered with glass cloth. The products are easy to apply, exhibiting instant adhesion and can be shaped to any profile. The product is MED certified.
Availability: in stock

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

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 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





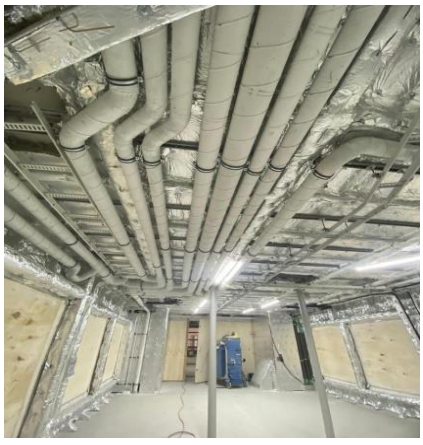


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WATER-BASED, SPRAYABLE THERMAL COATING

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



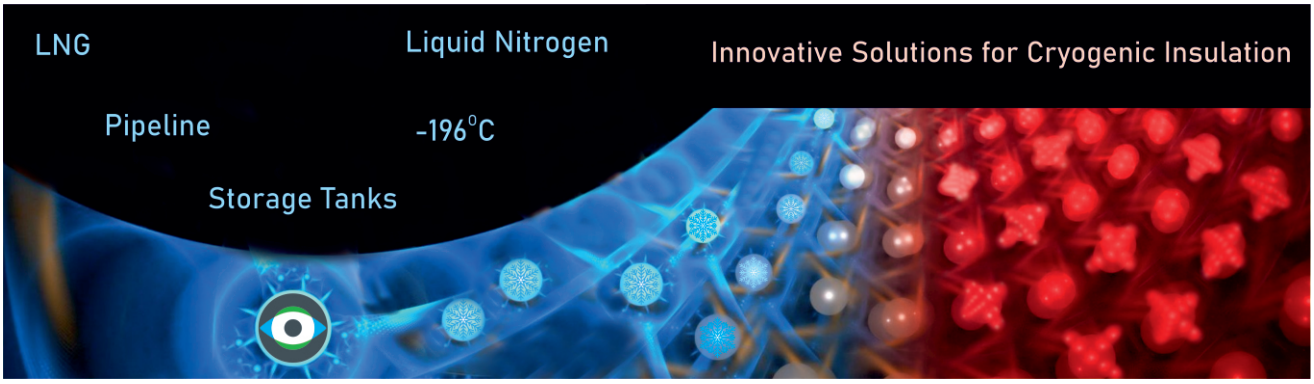




www.vizyonendustriyelyalitim.com/uploads/pdf/T35_VENTILATION_DUCT_INSULATION_SYSTEMS.pdf

VİZYON®
ENDÜSTRİYEL

INNOVATIVE SOLUTIONS FOR CRYOGENIC ISOLATION



VİZYON®
ENDÜSTRİYEL



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