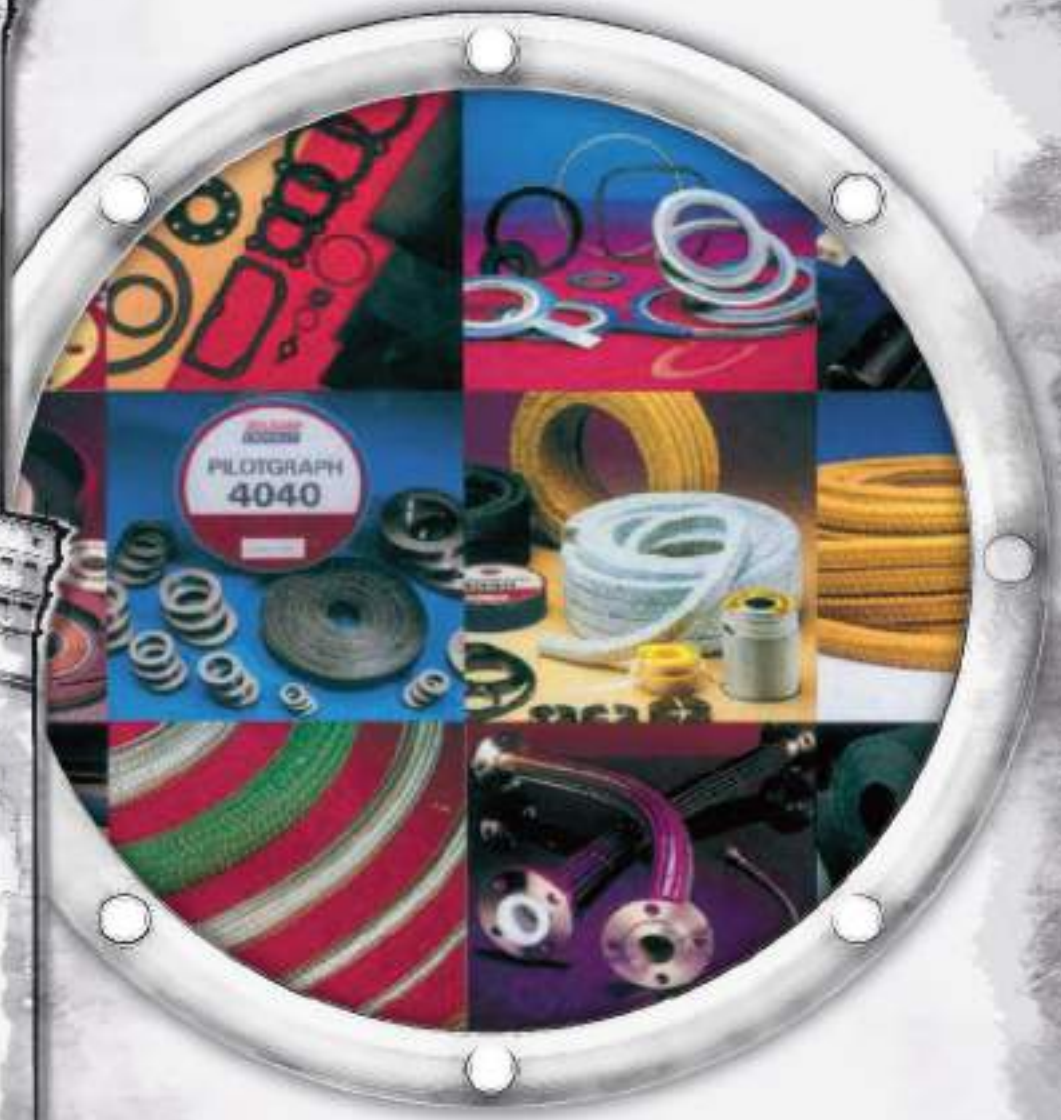
Monti & Barabino

Technical Supplies for Industrial and Naval field since 1880



PRODUCT RANGE

Monti & Barabino, established in 1880, is based in Genoa and operates in the field of Technical Items supplies for the Industrial and Maritime Sectors.


RINA

CERTIFICATO N. 9699/03/S
CERTIFICATE No.

MONTI & BARABINO S.P.A.

ISO 9001:2015


IQNet

CERTIFICATE

MONTI & BARABINO S.P.A.

Quality Management System

ISO 9001:2015

Registration Number: IT-32349

The extremely wide experience matured in more than 135 years of activity and its highly qualified personnel composed by technicians, marine engineers, naval architects etc., enables the Company to offer the most complete and efficient technical and commercial assistance.

Moreover, the products stocked in its large warehouse allows it to promptly satisfy any kind of enquiry, while its workshop is able to manufacture all types of packings and gaskets comprising the moulding of rubber and elastomer of various types, including silicon, Fluoropolymer, Polyurethane, etc.

Since February 2004, Monti & Barabino S.p.A. improved its Quality Management System in accordance with **UNI EN ISO 9001** regulations, obtaining the certification through **R.I.NA.** This prestigious acknowledgement is a confirmation of our constant effort in offering excellent quality and service to all those Customers who have chosen and will choose our Company as their supplier.

Our workshop, acting as Parker Official distributor, is able to offer:

- FLEXIBLE HOSES FOR LOW, MEDIUM AND VERY HIGH PRESSURE
- MED APPROVED FLEXIBLE HOSES
- TYPE APPROVED SHIP TO SHORE AND INDUSTRIAL COMPOSITE HOSES
- HIGH PRESSURE STEAM HOSES
- HIGH PRESSURE CLEANING HOSES
- RUBBER, STAINLESS STEEL AND TEXTILE EXPANSION JOINTS

Moreover:

- HYDRAULIC TEST FACILITIES
- MANAGEMENT OF TESTING PROCEDURES IN PRESENCE OF CLASSIFICATION BODIES
- PRESSED FITTINGS ON LARGE BORE RUBBER HOSES UP TO 10”

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MECHANICAL WORKSHOP and **PIPE WORKSHOP** are available for the execution of customized processes on our semi-finished products. Thanks to the wide availability of **WAREHOUSE** we are able to satisfy your needs in a short time, organizing and managing your shipments in a very short time.

We perform CNC turning and cutting on rubber and metal semi-finished products; we mold details and rubber gaskets.

We produce gaskets in any material, even according to Customer's design, including padded copper and spiral wound gaskets.

We sew and assemble insulating mats and textile joints: wide choice of fabrics for high temperatures.

Laser marking of finished products and components

We are an authorized Parker assembling center, hydraulic hoses up to 3" and industrial hoses up to 10".
Ask for our **FLEXIBLE HOSES** and **ACCESSORIES CATALOG**

Approved welders able to manufacture special fittings according to Customer's specifications.

We perform internal hydrostatic tests, also in the presence of an external Certifying Body.

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Adhesives and Sealants

ARALDITE® 2011 A/B
(AW 106 Resin/Hardener HV 953)
MULTI-PURPOSE EPOXY ADHESIVE

Description:

Araldite 2011 A/B epoxy adhesive is a multi-purpose, viscous material that is suitable for bonding a variety of materials, including metal, ceramic, and wood.
The electrically insulating adhesive is easy to apply either manually by spatula and stiff brush or mechanically with meter/mix and coating equipment. Araldite 2011 A/B epoxy adhesive cures at temperatures from 68ºF (20ºC) to 356ºF (180ºC) with no release of volatile constituents.

Applications:

- Metal
- Ceramics
- Wood
- Vulcanized Rubber
- Foams
- Plastics

Advantages:

- Long open time
- High shear and peel strength
- Easy to apply
- Good resistance to static and dynamic loads
- Electrically insulating

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TYPICAL PROPERTIES:			***Test Values*** [1]	
	Property	**Test Method**	**Resin**	**Hardener**
	Color/appearance	Visual	Creamy, viscous/liquid	Amber Liquid
	Specific Gravity	ASTM D-792	1.17	0.92
	Viscosity (cP) @ 77°F (25°C)	ASTM D-2393	50,000	35,000

TYPICAL MIXED PROPERTIES:			
	Property	**Test Method**	***Test Values*** [1]
	Reaction Ratio (by weight)		100R/80H
	Reaction Ratio (by volume)		100R/100H
	Pot Life, hours @ 77°F (25°C) (4.fl. oz. mass)	ASTM D-2471	2
	Mixed viscosity (cP) @ 77°F (25°C)	ASTM D-2393	45,000

1Tested @ 77°F (25°C)

RECOMMENDED CURE SCHEDULES:			
	Temperature	**Handling Strength**	**Minimum Cure Time**
	68ºF (20ºC)	12 hours	15 hours
	77º (25ºC)	7 hours	12 hours
	104ºF (40ºC)	2 hours	3 hours
	158ºF (70ºC)	30 minutes	50 minutes
	212ºF (100ºC)	6 minutes	10 minutes
	302ºF (150ºC)	4 minutes	5 minutes

TYPICAL CURED PROPERTIES:	
	Application of Adhesive The resin/hardener mix is applied with a spatula to the pretreated and dry joint surfaces. A layer of adhesive 0.002 to 0.004-inches (0.05 to 0.10-mm) thick will normally impart the greatest lap shear strength to a joint. The joint components should be assembled and clamped as soon as the adhesive has been applied. Even contact throughout suffices to ensure proper cure. **Standard Test Specimens** Unless otherwise stated, the figures given below were all determined by testing standard specimens made up by lap-jointing 4-inch x 1-inch x 0.06-inch (10-cm x 2.5-cm x 1.5-mm) strips of aluminum. The joint area was 0.5 x 1 inch (12.5 mm x 2.5 cm) in each case.

CAF 1

One component self-leveling silicone sealant, acetic, that cures at room temperature.
It guarantees a perfect assembly and a complete seal in the presence of materials subject to high temperatures.

Applications:

Easy to apply, it is used on glass, enamel, paint, metal and polyester. Essential for sealing O-ring silicone gaskets.

Properties:

Aspect	Fluid, red paste	
Working temperature		
- max.	°C	+300
- min.	°C	-65
Hardness	Sh A	48
Elongation at break	%	220
Solid content	%	86
Curing time:		
- Film layer @ 23°C humidity	50%	7 min
- Setting time tk 2 mm @ 23°C humidity	50%	5 ore
Specific Gravity	1,12	
Odour	Acetic	

Commercial sizes:

Tube 100 gr.....cod. 6523.0010
Bottle 1 lt.....cod. 6523.0015

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CAF 4

One component self-leveling silicone sealant, acetic, that cures at room temperature.
It guarantees a perfect assembly and a complete seal in the presence of materials subject to high temperatures.

Applications:

Easy to apply, it is used on glass, enamel, paint, metal and polyester.
Essential for sealing O-ring silicone gaskets.

Properties:

Aspect	Viscous, off-white paste	
Working temperature		
- max.	°C	+250
- min.	°C	-65
Hardness	Sh A	36
Elongation at break	%	300
Solid content	%	86
Curing time:		
- Film layer @ 23°C humidity	50%	11 min
- Setting time tk 2 mm @ 23°C humidity 50%	50%	5 ore
Specific Gravity	1,12	
Odour	Acetic	

Commercial sizes:

Tube 100 gr.....cod. 6523.0004
Bottle 1 lt.....cod. 6523.0014

COPALTITE®

HIGH TEMPERATURE & PRESSURE SEALANT

Description

Heat-resistant compound used for sealing threads, flanges, and other fittings where very high temperatures and pressures are involved.

Applications

Turbines, heat exchangers, compressors, condensers, etc, in the presence of water, steam, oil, hydrocarbons, ammonia, hydraulic fluids, Freon, non-aggressive acids and alkalis. Characterized by good adhesion to rubber, metals, ceramics, glass and to most of the plastic materials

In compliance with **MIL-S-15204D**

Features

Working Temperature		
- max.	°C	815
- min.	°C	-192
Viscosity	cps	10,000
Coefficient of expansion	$x10^{-6}$	50
Solid Content	%	86
Curing time after heating		
@ > 150°C	min.	15
@ < 150°C	h.	4
Color	black	

Commercial size

Tube 140 gr..... cod. 6523.7000

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PERMATEX®
GASKET SEALANT

Available in three different versions for a quick and effective solution of sealing problems.

Features

Type	*Cod*	*Issa*	*Generality*	*Applications*
1 - HARD	6523.3521	812611	Hard fast curing paste, perfect for hard and/or permanent assembly. It seals and repairs a wide range of gaskets, it fills irregular flanges surfaces and seals pipe fittings and threaded assemblies.	Working temperature from 55 °C to 204 °C, pressure up to 350 kg/cm, reddish brown color. Water, petrol, oils, lubricants and aliphatic hydrocarbons resistant. Can be applied from the tube or using a spatula
2 - SOFT	6523.3522	812612	Soft slow curing paste. It's suitable to assembly parts where a flexible setting is required. It seals flanges, fittings, thread connections. It also improves the performance of existing gaskets	Working temperature from 55 °C to 204 °C, black color. Water, petrol, oils, lubricants and aliphatic hydrocarbons resistant. Can be applied from the tube or using a spatula
3 - FLUID	6523.3523	812613	Slow curing liquid which forms a flexible skin. It's suitable to ensure the sealing of strong assembly. It's used for head gaskets and for the assembly of worked surfaces, threaded connections, hydraulic pumps.	Working temperature from 55 °C to 204 °C, reddish brown color. Water, petrol, oils, lubricants and aliphatic hydrocarbons resistant.Can be applied with roll or brush.

Note

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High Temperature Products

SILICONE COATED FIBERGLASS SLEEVING

Silicone Sleeving is a braided sleeving which is manufactured from E- berglass yarn. It is used in demanding environments where temperatures reach up to 1000 degrees F (538 degrees C.). Due to its unique construction, wall thickness at a nominal weight increase thereby providing better insulation against heat. Because it is manufactured by the unique braiding process, it is extremely exible, allows for expansion, and easily conforms. It nds ready application as an insulation and/or protective covering in a variety of industries.

It is used to insulate steam tracer lines in oil re neries, as thermal and electrical insulation for the wire and cable industry, in glass manufacturing, for covering tines in metal re ning, foundries and steel mills, and wherever else a high temperature barriermight be required.

Sleeve	Fiberglass Filament	
Fire resistance	Self-extinguishes	
Coating	Red Silicone	
Max continuos operating temperature	Fiberglass	560 °C
	Silicone:	260° C
Peak operating temperatures	10 - 20 min	1000° C
	15 - 30 sec	1600° C
Inside diameter	10 - 125 mm	

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THERMAL PROTECTION FOR EXHAUST GAS DUCTS

GENERALITY

The **THERMAL PROTECTION FOR EXHAUST GAS DUCTS** are specifically indicated for the tharmal and acoustic insulation in ship's engine rooms. The thermal protection fixing system has been designad in order to allow an easy disassembling for maintenance purposes. Each kind of thermal protection can be tailor-made according to Customer' specification.

Structure

The internal structure of the **THERMAL PROTECTION FOR GAS DUCTS** is made by an insulating felt that ensures thermic and acoustic reduction in the engine room. Such insulating felt is coated with special fabrics suitable to resist to very high temperatures (500 - 800°C). The external coating is made by heat resistant fabrics with metallic reinforcements and a silicon, aluminum or steel outer layer.

THERMAL INSULATION
MB EXOWRAP

SOLAS REGULATION II-2/15.2.10 STATES THAT:

"A surfaces with temperatures above 220º C which may be impinged as a result of a fuel system failure shall be properly insulated."

MB EXOWRAP INSULATION SYSTEM is the quick and easy way to insulate high temperature surfaces in vessel engine rooms; it is made from biosoluble vitreous silicate fibre reinforced with an outer jacket of heat sealed aluminun foil. In tape or blanket format, **MB EXOWRAP** is applied in one step eliminating the need for bulky and time consuming layered insulation.

Can be easily removed and reinstalled several times by using the special sealing tape; has been tested up to 1000°C to be used in engine room.

Commercial dimensions

Width	*Lenght*	*Thickness*	*Box*	*Format*
50 mm (2")	7,7 mt (25')	3 mm (1/8")	24	TAPE
100 mm (4")	3,3 mt (10')	12 mm (1/2")	6	
300 mm (12")	7,7 mt (25')	25 mm (1")	2	BLANKET
600 mm (24")	7,7 mt (25')	25 mm (1")	1	

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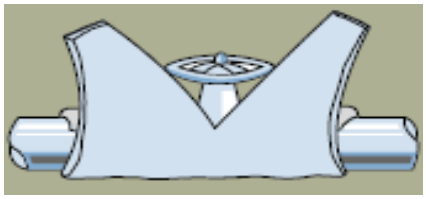
APPLICATION

Tape

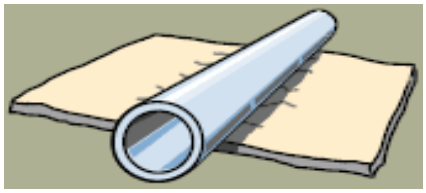
For use on bent and flanged pipes in areas where maintenance is not a consideration and/or space is limited. ExoWrap® has a pressure sensitive adhesive on the inner side for ease of installation.



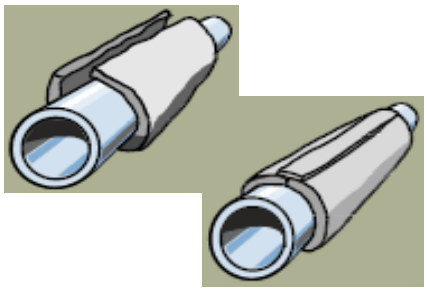
Remove dirt, oil, scale and excessive moisture from surface. **ExoWrap**® is wound around the pipe in a spiral motion using a 50% overlap to ensure good adhesion. Be sure that the foil edges are securely fastened. Ends can be secured with wire or clips if desired. For removal, unwind or cut the **ExoWrap**® Tape from the pipe. Tape is not reusable.

Blanket

For use on straight pipes, valves, exhaust equipment, turbochargers, angled and uneven surfaces. And, anywhere that insulation is required. **ExoWrap**® Blankets are secured with **ExoWrap**® 'Silihesive' Tape for ease of maintenance.



Cut the **ExoWrap**® Blankets to size with a utility knife or shears. Wrap around the surface to be insulated, butting the ends together forming a seam. Secure and seal the seam with Silihesive Tape.
To remove **ExoWrap**® Blanket, cut the Silihesive Tape and unwrap from metal surface. To reinstall, new Silihesive Tape must be applied.



MINERAL FIBER BLANKET

GENERALITY

Obtained from fibers of calcium, magnesium and silicates, ensures thermal insulation up to an operating temperature of 1000° C. It is an excellent solution to the problems of thermal insulation with excellent mechanical and physical properties.
Suitable to be used for a wide range of applications in the production of refractory and thermal insulation panels. Excellent thermal shock resistance.

FEATURES

Flexible insulation, strong and light, whose special weave allows not to use caking elements, resulting in obtaining a woven fiber particularly resistant, soft and easy to be cutted and shaped. Completely inorganic, it does not generate toxic gases or fumes while using in temperature.

Chemical Analysis	Silica / Calcium / Magnesium
Combustibility	Class 0
Fumes emission	Class 0
Operating Temperature	1000°C / 1150° HT version
Peak Temperature	1200°C / 1300° HT version
Tichkness	from 13 to 50 mm
Density	from 64 to 168 kg/m^3
Width	600 / 1200 mm
Length	from 3700 to 14700 mm

Illustrations and values here shown are to be considered as indicative and may be changed without notice.

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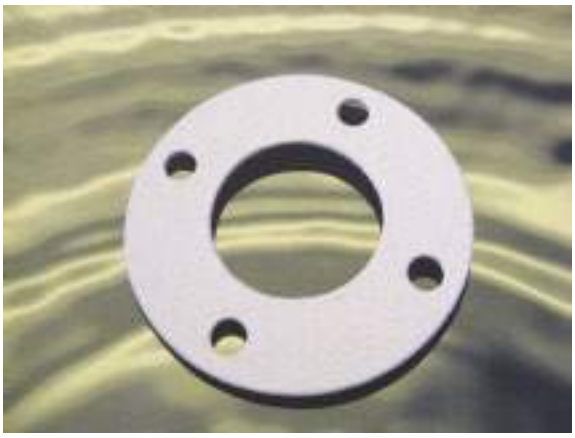
JAGOLIT 11

HIGH TEMPERATURE ASBESTOS FREE CARDBOARD

GENERALITY

It is a special roll consisting of mica and special fibers, bound together with a good quality elastomer resistant to very high temperatures. It has been specifically designed for the seals industry and heat shields, bagged type of use in the exhaust systems of exhaust gases (manifolds, catalytic converters, particulate filters FAP, with thermal protection accessories etc.) And can be successfully employed in other industrial sectors (furnaces, boilers, various equipment, appliances etc.) where thermal protection screens are required.



FEATURES

Density			0,95 g/cm^3		
Compressibility			28%		
Recovery			29%		
Tensile Stength			6 Mpa transversal		
Decrease after combustion					
400°C	14,50%	600°C	17,0%	800°C	20,0%

Ageing changes		
22 h a 200°C IN AIR	Compressibility	25% ASTM F36
	Recovery	27% ASTM F36
	Volume decrease	2,70%
	Tensile Strength	1,4 Mpa ASTM F152

Temperature °C	100	150	200	250	300	400	500	600
Conductivity W/(M*k)	0,072	0,076	0,079	0,082	0,086	0,093	0,100	0,110

APPLICATIONS

Specifically designed to realize heat-screens or fillers of semi-metallic gaskets. In the automotive sector, the heat screens made with Jagolit can be used to bring down the heat and noise of exhaust manifolds, diesel particulate filters (FAP), catalysts and, generally, in all the exhaust apparatus.

AvSil 84CH®
SILICA FABRIC

Silica **Fabric 84CH®** is the preferred choice in the thermal protection of equipment and personnel in high temperature applications. silica **Fabric 84CH®** can withstand molten metal temperatures and can protect personnel and equipment at intermittent temperatures up to 1,800°F (1,000°C).

APPLICATIONS

Silica **Fabric 84CH®** can be used for fabricated as welding drop cloths, stress relief blankets, protective screens/covers, furnace curtains, insulation mats and cable tray wraps. silica Fabrics are used extensively in the Power Generation, Refinery, Shipbuilding, Ship Repair and Metal Processing industries.

FEATURES

Working Temperature	950°C
Max base textile Working Temperature	1650°C
Combustibility: BS 476 part 7, 1971	Class 1
Weight	600 g/mq
Thickness	0,76 mm
Color	pale yellow

Silica fabrics can meet Military Specs MIL-C-24576A and MIL-I-24244C upon request.

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AvSil 188CH®
SILICA FABRIC

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APPLICATIONS

Silica **Fabric 188CH®** can be used for fabricated as welding drop cloths, stress relief blankets, protective screens/covers, furnace curtains, insulation mats and cable tray wraps. silica Fabrics are used extensively in the Power Generation, Refinery, Shipbuilding, Ship Repair and Metal Processing industries.

FEATURES

Working Temperature	950°C
Max base textile Working Temperature	1650°C
Combustibility: BS 476 part 7, 1971	Class 1
Weight	1200 g/mq
Thickness	1,37 mm
Color	pale yellow

Silica fabrics can meet Military Specs MIL-C-24576A and MIL-I-24244C upon request.

CALZA CV

Texturized glass fiber sleeve, silicon coated version also available for waterproof applications at temperatures not exceeding 200 °C.

APPLICATIONS

Suitable for thermal insulation in general, pipe insulations, cable covering.

FEATURES

Operating temperature	500 °C
Peak temperature	600 °C
Combustibility: BS 476 part 7, 1971	Class 1
Thickness	2,5 / 3 mm

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"9N" INSULATING MILLBOARD

Insulating asbestos free millboard and refractory ceramic fibers. It is in form of high density rigid boards, suitable for a variety of heat resistant and thermo-insulating applications.

COLOR: Grey

APPLICATIONS

- Refractory panels
- Thermal insulation
- Gaskets
- Walls
- Insulation in the presence of high temperatures

FEATURES

Density	Kg/m^3	910
Operating Temperature	°C	850
Tensile Strength	MPa	3,0
Loss on Ignition	% weight	18
Thermal Conductivity	W/mK	0,10 a 400 °C
Linear reduction after 24h	%	<2
Standard Sizes	m x m	1 x 1
Standard Thickness	mm	1,5 -10

C3V INSULATING ROPE

C3V glass insulating rope consists of glass fibres, without any binding agents, enclosed in a open nesh knit braided sleeving. This product is mainly used for insulating piping.

APPLICATIONS

The base fibres are inorganic, sterile and non-combustible. They do not rot and are not affected by funguses, bacteria or insects. The rope has a low heat conductivity and can be used for temperatures up to 550°C. It is light and resistant to oils, solvents and many chemical agents (however, it is advisable to avoid contact with live steam).

FEATURES

Working Temperature	550°C
Peak Temperature	600 °C
Combustibility: BS 476 part 7, 1971	Class 1
Thermal Conductivity	0,06 W/mK
Heat Transfer Coefficient	3 W/m^2K

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17V TWISTED ROPE

The **17V** twisted rope is made entirely of glass yarns, suitable to operate at very high temperatures. The cord is an extremely flexible and soft gasket.

APPLICATIONS

Furnace joints; seal joints for stoves and ovens; pipe insulation; joints for coke furnace doors; thermal insulation of electric wires.

FEATURES

Working Temperature	500°C
Peak Temperature	600 °C
Combustibility: BS 476 part 7, 1971	Class 1

N/V TAPES

Tape made of fiber glass “E” continuous filament, texturized.

APPLICATIONS

Suitable for thermal insulation in general and in particular for pipes and artifacts.

FEATURES

Operating Temperature	500 °C
Peak temperature	600 °C
Flammability: BS 476 Part 7, 1971	Class 1
Thickness	1.5 mm and 3 mm

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19V1 PACKING

The **19V1** packing is braided with 4 diagonals and is produced entirely using textured yarns resistant to 550°C with low density.

APPLICATIONS

Wood boilers, industrial furnaces, high temperature seals, in the boiler, iron metallurgy, petrochemical industries and in foundries for sealing boiler and furnace doors.

FEATURES

Working Temperature	500°C
Peak Temperature	600 °C
Combustibility: BS 476 part 7, 1971	Class 1

MB 411

Fiberglass fabric “E type “, one side coated with red silicone rubber.

APPLICATIONS

Textile expansion joints, protection barrier and thermal insulation.

FEATURES

Working Temperature	250°C
Max base textile Working Temperature	600°C
Combustibility: BS 476 part 7, 1971	Class 1
Weight	865 g/mq
Thickness	0,8 mm
Textile weight	565 g/mq
Textile thickness	0,6 mm
Color	White / Red

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MB 180

Fabric made from glass fibers “E” type continuous filament, dual gridded texture. Aluminized version also available.

APPLICATIONS

Light duty. Suitable to produce insulating mattresses, protective blankets, insulating panels and thermal insulation. Recommended in the presence of radiant heat and when a clean and waterproof is required.

FEATURES

Working Temperature	500°C
Max base textile Working Temperature	600°C
Combustibility: BS 476 part 7, 1971	Class 1
Weight	200 g/mq - 300 g/mq aluminized version
Thickness	0,18 mm - 0,2 mm aluminized version
Color	White

MB 400

Fabric fibers made of “E” glass continuous filament, double-gridded texture.
Aluminized version also available.

APPLICATIONS

Light duty. Suitable to produce insulating mattresses, panels and protective blankets. Recommended in the presence of radiant heat and when a clean and waterproof is required.

FEATURES

Working Temperature	500°C
Max base textile Working Temperature	600°C
Flammability: BS 476 Part 7, 1971	Class 1
Weight	420 g/m² - 520 g / m² aluminized version
Thickness	0,4 mm – 0,42 mm aluminized version
Thermal conductivity	0,06 W/mK
Color	White

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MB 540

Fiberglass fabric “E type”, each side coated with grey silicone rubber.

APPLICATIONS

Textile expansion joints, protection barrier and thermal insulation.

FEATURES

Working Temperature	250°C
Max base textile Working Temperature	500°C
Combustibility: D.M. 20.06.84	Class 1
Textile weight	540 g/mq
Textile thickness	0,4 mm
Reaction to Oil ASTM D 471 – Olio 3	None
Loss on Ignition UNI 6536	<11%
Weave	Satin
Color	Grey

MB 800

Fabric fibers made of “E” glass continuous filament, double-gridded texture.
Aluminized version also available.

APPLICATIONS

Thermal insulation, insulating and blankets. Recommended in the presence of radiant heat and when a clean and waterproof is required.

FEATURES

Working Temperature	500°C
Max base textile Working Temperature	600°C
Flammability: BS 476 Part 7, 1971	Class 1
Weight	800 g/m² - 900 g/m² aluminized version
Thickness	0.7 mm - 0,8 mm aluminized version
Color	White

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MB 1000

Fabric made of glass yarn E obtained from continuous filament texturized. It presents valid resistance to high temperature peaks retaining flexibility and mechanical properties. It offers excellent resistance to traction and vibration, high chemical stability against oils, fuels and the most corrosive agent.

APPLICATIONS

Thermal insulation. Suitable to manufacture protection and insulation blankets, thermal protection of machineries.

FEATURES

Working temperature	550°C
Combustibility	Class 0
Weight	1000 g/mq
Thickness	1,5 mm
Thermal conductivity	0,06 W/mK
Heat Transfer Coefficient	23,6 W/m^2K
Color	White

MB 1050

Is made by a special texturized fibreglass yarn with improved insulating properties of the finished products. The surface is treated to increase resistance to heat and flame.

APPLICATIONS

Suitable to realize thermal insulation and blanket in the presence of very high temperatures, flames and welding operations. It is characterized by a high degree of resistance to splashes of molten metal which evolve, for example, by during intersect a metal plate (oxygen cutting) on ship decks.

FEATURES

Working Temperature	1000°C
Combustibility: BS 476 part 7, 1971	Class 1
Weight	1050 g/mq
Thickness	1,2 mm
Thermal Conductivity	0,06 W/mK
Tensile Strength warp/weft ISO 4606	5000/2500 N/50mm
Weave DIN 61-101 1	Plain
Color	Light Blue

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MB 1106

Glass cloth woven from textured “E” glass fibres and coated on both sides with white silicone rubber.

APPLICATIONS

Particularly indicated for protection when in presence of radiant heat, including sparks and molten metal splash. Ideal for the manufacture of blankets, bellows and expansion joints.

FEATURES

Working Temperature	250°C
Peak Temperature of base cloth	500°C
Weight	2200 g/mq
Tensile Strength warp/weft	3500 N/50mm
Thickness	2,7 mm +/- 8%
Thermal Conductivity	0,06 W/mK
Weave	Plain
Color	White

MB 1600R

Made with P.A.N (polyacrylonitrile) yarn fibers and synthetic fibers characterized by high mechanical resi stance. Very good properties in thermal insulation, nonflammable. It does not melt. Coated one side with uncured natural rubber.

APPLICATIONS

Thanks to the particular characteristics of the fibers P.A.N. pre-oxidised, this fabric provides excellent thermal insulating qualities of mechanical and abrasion resistance.

Suitable for construction of manholes and railings for boilers.

FEATURES

Working Temperature	250°C
Combustibility: D.M. 26.06.84	Class 1
Weight	1600 g/mq
Thickness	1,5 mm
Thermal Conductivity	0,06 W/mK
Color	Grey

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Shock Absorbing Elements

M & B

SHOCK ABSORBING ELEMENTS

The effective isolation of the vibrations is obtainable through the use of support elements or insulators that, suitably chosen, can significantly reduce the noise pollution and the damage caused by the vibrations transmitted by the machinery. A wide range of materials and components suitable for various applications in the automotive, marine and industrial sector.

RUBBER BUFFER

They are simple and cheap elements of end stroke suitable for the absorption of shocks derived from the light and medium weight machines. They are characterized by long life, high elasticity and reduced installation dimensions.

COD. 8699

Cod	Ø	H	Thread	Max compression load	Max shear load
	mm	mm	M	kg	
2008	20	8,5	6	45	4
2015	20	15	6	50	4
2517	25	17	6	50	6
3030	30	30	8	80	8
4030	40	30	8	120	16
5021	50	20	10	150	20
5025	50	25	10	150	20
5040	50	35	10	170	18
7525	75	25	12	450	90
8140	100	40	16	900	100
More sizes available upon request values are approximate and subject to change.					

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PUFFER

Simple and cheap anti-vibration elements suitable for the elastic suspension of light and medium weight machines. Available in various versions, are used in the isolation of vibration of machines of all types. Suitable for the attachment of equipment sensitive to vibration such as instrument panels and small electronic equipment, to absorb compressive stresses and shear, not in traction.

VERSION "A"
MALE / MALE
COD. 8693

Cod	Ø	H	Thread	Max compression load	Max shear load
	mm	mm	M	kg	
1515	15	15	4	20	4
1885	20	8,5	6	40	4
2015	20	15	6	50	4
2025	20	25	6	30	3
2520	25	20	6	60	6
3020	30	20	8	80	8
3030	30	30	8	80	8
4030	40	30	8	120	16
4040	40	40	8	140	18
5020	50	20	10	150	20
5030	50	30	10	160	20
5045	50	45	10	155	17
6045	60	40	12	240	30
6050	60	50	12	230	25
7050	70	50	10	450	60
7525	75	25	12	450	90
7550	75	50	12	480	60
8130	100	30	16	900	110
8140	100	40	16	900	100
More sizes available upon request values are approximate and subject to change					

← - PUFFER -

VERSION "B"
MALE / FEMALE
COD. 8695

Cod	Ø	H	Thread	Max compression load	Max shear load
	mm	mm	M	kg	
1515	15	15	4	20	4
2015	20	15	6	50	4
2020	20	20	6	40	3
2025	20	25	6	30	3
2520	25	20	6	60	6
3020	30	20	8	80	8
3030	30	30	8	80	8
4030	40	30	8	120	16
4040	40	40	8	140	18
5030	50	30	10	160	20
5040	50	40	10	170	18
6050	60	50	12	230	25
7050	70	50	10	360	30
7550	75	50	12	480	60
8140	100	40	16	900	100
More sizes available upon request values are approximate and subject to change					

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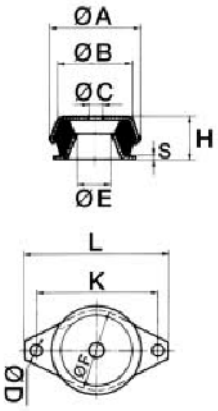
VERSION "C"
FEMALE / FEMALE
COD. 8697

Cod	Ø	H	Thread	Max compression load	Max shear load
	mm	mm	M	kg	
2020	20	20	6	40	3
2025	20	25	6	30	3
2520	25	20	6	60	6
2525	25	25	6	40	4
3020	30	20	8	80	8
3025	30	25	8	80	8
3030	30	30	8	80	8
4030	40	30	8	120	16
4040	40	40	8	140	18
5030	50	30	10	160	20
5045	50	45	10	155	17
7530	75	50	12	500	80
8140	100	40	16	900	110
8155	100	55	16	850	100
More sizes available upon request values are approximate and subject to change					

BELL MOUNTS

This rubber / metal element is mainly used in the damping of vertical vibrations.
The shear rigidity is greater than the vertical stiffness.
They are used as elastic supports for diesel generators, machine tools, presses, mills, ventilation systems, generators etc.



COD. 8689

Cod	L	H	K	C	A	E	D	Bell Diam	S	Max static load
	mm									kg
0010	81	23	68	8,2	48	18	6,5	42	1,5	100
0020	106	31	75-90	10,2	60	25	16	63	2	200
0030	128	45	110	16,2	92	42	10,5	85	3	300
0040	190	50	160	24,2	108	60	16,5	100	5	600
More sizes and version available upon request values are approximate and subject to change										

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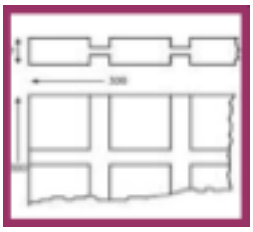
RUBBER PLATES

Are slabs made in special rubber compound gridded on both sides, which are normally used in cases where it is required the interruption of the contact to the floor by means of elastic suspension in a ground support equipment such as lathes and other machine tools.
Thanks to the friction which is created between the rubber and the floor, this type of element can not be anchored to the floor. Where necessary it is however possible a mechanical fixing of the plate by means of pins and bolts.

COD. 8707



Cod	Dimensions	Frequency	Failure	Max load
	mm	Hz	mm	kg/cm²
0199	300x300	30/40	1,2	8
Values are approximate and subject to change				

VIBROSTOP AA ®

The aluminium alloy external structure makes the AA isolator resistant to accidental overloads (in the event of earthquakes, vehicle accidents or sudden shutdown of rotating machinery) and protects the elastomeric components from direct weather exposure, extending their reliability and service life. The AA anti-vibration mounts are highly versatile and used for multi-directional isolation of mechanical vibrations, reduction of structural noise and mitigation of small shocks in a variety of applications.
Suitable for air conditioning, industrial machinery, petrochemical industry, generators and transformers, rotating machines, transport sector, electrical switchboards, shipyards.

VIBROSTOP®

AVAILABLE IN STOCK AND UPON REQUEST

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Packings

BELDAM'S PILOTPACK 76

GENERALITY

PILOTPACK 76 is braided from long, staple cotton yarns and impregnated with pure tallow. The method of construction and lubricant used in this packing ensure that it remains very flexible and resilient in service.

Rotary, reciprocating and static. Centrifugal pumps and air compressors. Water, alcohol, ammonia and hydraulic service.

APPLICATIONS

Suitable for rotative, reciprocating and static applications, **PILOTPACK 76** is especially designed for fresh and sewater applications, for slow running, stern shaft applications. pH range 5 - 9. Very easy to install even in restricted areas.

Rotating applications

Speed	10 m/sec
Temperature	120°C
Pressure	25 Bar

Valve applications

Speed	2 m/sec
Temperature	120°C
Pressure	100 Bar

Reciprocating applications

Speed	2 m/sec
Temperature	120°C
Pressure	70 Bar

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BELDAM'S PILOTPACK 116

GENERALITY

PILOTPACK 116 is braided from soft cotton yarn, impregnated with a graphite lubricant. The packing is very flexible and quickly settles in the gland to form a very efficient seal.

Rotary, reciprocating and static. High-speed centrifugal pumps. General service, bilge, ballast and water pumps.

APPLICATIONS

Suitable for rotative, reciprocating and static applications, **PILOTPACK 116** is especially designed for fresh and sewater applications, for slow running, stern shaft applications. pH range 5 - 9. Very easy to install even in restricted areas.

Rotating applications

Speed	10 m/sec
Temperature	120°C
Pressure	25 Bar

Valve applications

Speed	2 m/sec
Temperature	120°C
Pressure	100 Bar

Reciprocating applications

Speed	2 m/sec
Temperature	120°C
Pressure	40 Bar

BELDAM'S PILOTPACK 5020

GENERALITY

PILOTPACK 5020 is produced from high-strength, high-modulus organic aramid synthetic yarn, fully impregnated with PTFE and a special hightemperature lubricant. Can be used at very high pressures without extruding in glands with normal clearances. Suitable for high-speed pumps in many chemical services.

Suitable for food applications in the presence of abrasive and aggressive chemicals.

APPLICATIONS

PILOTPACK 5020 is suitable for paper/pulp, feed-stock, slurries. Wood pulp digesters/ agitators. Cement dust, abrasive particles. Effluent, sewage, raw and digested. Coal and ash. Sugar beet solutions, chocolate and cocoa. Suitable for all food applications because packing is completely inert and non-toxic.

Operating conditions

Temperature	300°C
Dynamic Pressure	20 Bar
Static Pressure	250 Bar
Speed	20 m/sec
pH range	2 - 13

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BELDAM'S PILOTPACK 8022

GENERALITY

PILOTPACK 8022 is a firm crossplait constructed packing, fully impregnated with inert PTFE to provide excellent resistance to chemical attack and together with the mineral lubricant to aid initial bedding-in purposes. The basic packing material is a blend of high strength aramid fibre combined with the good thermal conductivity of oxidised acrylic yarn to aid rapid heat dissipation and allow cooler running.
Universal packing, suitable for static and dynamic applications.

APPLICATIONS

PILOTPACK 8022 is indicated for general purposes with chemicals and petrochemical products such as dilute acids and bases, oils, solvents, steam and water. It is used in the paper industry and in refineries pumps and valves.
pH range 2-12.

Rotating applications

Speed	10 m/sec
Temperature	- 100 / +290°C
Pressure	10 Bar

Valve applications

Speed	2 m/sec
Temperature	- 100 / +290°C
Pressure	100 Bar

Reciprocating applications

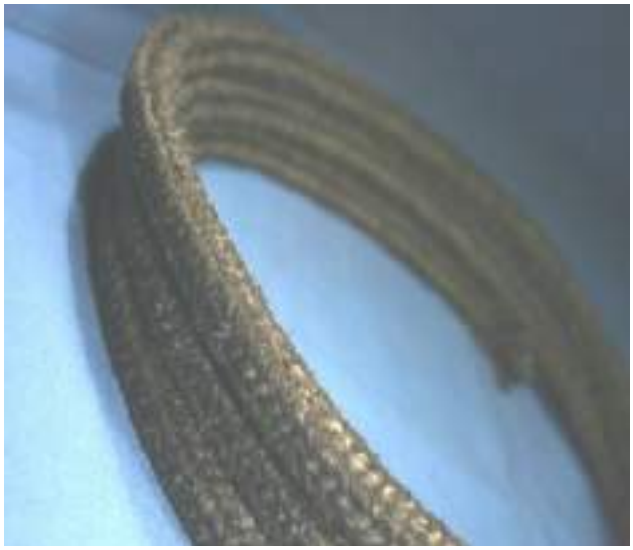
Speed	2 m/sec
Temperature	- 100 / +290°C
Pressure	100 Bar

BELDAM'S PILOTPACK 8113

GENERALITY

PILOTPACK 8113 is a greasy, graphited, general-purpose pump and valve packing. Each strand of high-temperature BCX yarn is impregnated with a graphite lubricant to provide a firm, uniformly-lubricated packing, with a low coefficient of friction, making it suitable for many pump applications.

Valves and pumps for rotating and reciprocating applications in the presence of high temperatures



APPLICATIONS

Suitable for rotating applications, alternative and static, **PILOTPACK 8113** is particularly suitable for use with hot fluids, abrasive mortars, petroleum products, sea water and chemical weak (pH 3-13, chemically inert). For application with steam consult our technical department.

Rotating applications

Speed	10 m/sec
Temperature	400°C
Pressure	10 Bar

Valve applications

Speed	1 m/sec
Temperature	400°C
Pressure	100 Bar

Reciprocating applications

Speed	1 m/sec
Temperature	400°C
Pressure	70 Bar

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BELDAM'S PILOTPACK 8500

GENERALITY

PILOTPACK 8500 is manufactured from BCX yarn, reinforced with Inconel wire and surface-treated with a mica flake lubricant. This packing is especially suitable where a graphite packing is not adviseable.

Very high-temperature static applications & valves

APPLICATIONS

PILOTPACK 8500 is indicated for slow reciprocating, static and valves. Rotary exhaust valves, high temperature slide valves, expansion joints. Steel and power industries. Especially designed for hot air and gases up to 700 °C.

Rotating applications

Speed	1 m/sec
Temperature	700°C
Pressure	10 Bar

Valve applications

Speed	1 m/sec
Temperature	700°C
Pressure	150 Bar

BEMACHEM

DESCRIPTION

Braided from sintered PTFE pretreated with graphite impregnation. It has very good thermal conductivity, high flexibility and stability of volume, extremely low coefficient of friction.

APPLICATION

Reciprocating and rotating shafts, valves, mixers and agitators. Especially for service involvingsurface speed and temperature higher than those normally specified for pure PTFE packing. It can be used in all chemical pump applications with the exception of some strong oxidizing agents.

Working conditions

T. Max	280°C
Rotating Pressure	25 Bar
Valve Pressure	250 Bar
Reciproc. Pressure	100 Bar
Speed	20 m/s
Range pH:	0 - 14

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BEMACRYL

DESCRIPTION

Braided from high strength PAN synthetic fiber pre-impregnated with PTFE, and re-impregneted during square braiding. It has excellent properties of sealing, lubricating and resistance to chemical.

APPLICATION

Excellent multi-service is for a wide variety of used throughout a plant. Used in pumps and valves, and can handle most chemicals except strong acid, strong alkali and strong oxidizer. Especially for the condition of middle-temperature, high-pressure, high speed, and the places where contamination is not permitted.

Working conditions

T. Max	260°C
Rotating Pressure	20 Bar
Valve Pressure	100 Bar
Reciproc. Pressure	80 Bar
Speed	20 m/s
Range pH:	2 - 13

BEMAFLON

DESCRIPTION

Made of sintered highly stretched PTFE multifilament yarns with thoroughly PTFE impregnation, re-impregnated during plaiting operation. Good resistance to compression and extrusion, high structural and cross-sectional density.

APPLICATION

Especially suited for high-pressure valves, plunger pumps, agitators, mixers and the places where contamination is not permitted.

Working conditions

T. Max	260°C
Rotating Pressure	25 Bar
Valve Pressure	250 Bar
Reciproc. Pressure	150 Bar
Speed	10 m/s
Range pH:	0 - 14

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BEMAPUMP

DESCRIPTION

Braided of high strenght PAM Synthetic fiber, treated with graphite. The packing is them re-impregnated during braiding consisting of graphite mixed with special lubrications. Much of graphite filler increases the service temperature and the density of the packing.

APPLICATION

Universal packing for pumps and valves, and handle water, air, steam, mild acids and alkalis all kinds of organic solvents and chemicals, especially suitable for conditions of high-temperature, high-pressure, medium speed.

Working conditions

T. Max	350°C
Rotating Pressure	25 Bar
Valve Pressure	150 Bar
Reciproc. Pressure	100 Bar
Speed	15 m/s
Range pH:	1 - 13

BEMARAMIÈ

DESCRIPTION

Highest quality ramie fiber impregnated with light-colored, special PTFE and inert lubricant during square plaiting operation. It can prevent products from being contaminated. Low maintenance, easy-to-control, it is not harsh on shafts and stems.

APPLICATION

For pumps, refiners, filters and valves in the brewing and beverage indusries, shipbuilding and other fields. It is especially resistant to abrasive media in the paper industry.

Working conditions

T. Max	140°C
Rotating Pressure	25 Bar
Valve Pressure	100 Bar
VG (m/s)	12 Bar
Range pH:	4 - 11

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BEMAVALV

DESCRIPTION

Carbon fiber packing reinforced with Nickel wire, braided from strong carbon continuos yarns after softening, impregnated proprietary lubricants and graphite particles, which fill voids; act as break-in lubricant, and block leakage.

APPLICATION

Used for valves in high pressure and high temperature; handle water, steam, acids and alkalis for power stations, rafineries, boiler plants etc. Is commonly used in steam turbines, high temperature motor-actuated valves and for high pressure, high temperature valve application in general.

Working conditions

T. Max	600°C
Rotating Pressure	25 Bar
Valve Pressure	200 Bar
Reciproc. Pressure	100 Bar
Speed	20 m/s
Range pH:	2 - 12

Note

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Elastomers

SPONGE RUBBER

DESCRIPTION AND APPLICATIONS

EPDM-based closed-cell rubber profile suitable for sealing gaskets for watertight doors.

Technical features	*Spec*	*Units of measure*	*Tolerances*	*Value*
Density	ASTM D 3575-8	g/cm^3	+/- 0,05	0,35
Compression Set after 24h (50%)	ASTM D 1056	%	Max	15
Compression Deflection (25%)	ASTM D 1056	MPa	Max	0,1

CHEMICAL AND PHYSICAL RESISTANCE	
Hot air up to 100°C	Good
Flame	Fail
Weathering	Excellent
Ozone	Good
Low temperature stiffening	Sufficient
Low temperature embrittlement	Good
Aliphatic hydrocarbons / mineral oils	Fail
Animal and / or vegetal oils	Sufficient
Aromatic hydrocarbons	Fail
Chlorinated solvents	Fail
Chetons	Sufficient
Acid or basic solutions	Sufficient
Water	Good
Dielectric properties	Fail
Working temperature	- 35 / + 110°C
Color	Black

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AA120 - SBR BLACK RUBBER

DESCRIPTION & APPLICATIONS

Multipurpose economic sheet based on SBR rubber. Suitable to be used in presence of fresh and sea water, air.

Technical features	Spec.	Units of measure	Tolerances	Values
Hardness	UNI 4916 ASTM D2240 DIN 53505 AFNOR 46-0562	Shore A	+/- 5	70
Specific Gravity	UNI 7092 ASTM D792 DIN 53479 AFNOR 46-030	g/cm^3	0,03	1,65
Tensile Strenght	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	MPa	Min	3
Elongation At Break	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	%	Min	200
Tear Strenght	UNI 4914C ASTM D624 DIN 53515 AFNOR 46-007	N/mm	Min	15
Abrasion Resistance	UNI 9185 ISO 4649 DIN 53515 AFNOR 46-012	mm^3	Max	

Ageing Air 72 h - 70°C	Hardness	UNI ISO 188 ASTM D573 DIN 53508 AFNOR 46-004	Shore A	Max	+5
	Tensile Strenght		%	Max	-20
	Elongation		%	Max	-30
Ageing Water 72 h - 50°C	Hardness	UNI 8313/2° ASTM D471 DIN 53521 AFNOR 46-013	Shore A	Max	-6
	Volume		%	Max	+5
Min. and Max Working Temperatures IN AIR			°C		+70 / -20
Min. and Max Working Temperatures IN WATER			°C		+70
Color			Black		

NOTE	1 MPa= 10,2 Kg/cm^2 1 N/mm= 1,02 Kg/cm

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AA113 - SBR BLACK RUBBER

DESCRIPTION & APPLICATIONS

Multipurpose economic sheet based on SBR rubber. Suitable to be used in presence of fresh and sea water, air. Textile insertion reinforcement.

Technical features	Spec.	Units of measure	Tolerances	Values
Hardness	UNI 4916 ASTM D2240 DIN 53505 AFNOR 46-0562	Shore A	+/- 5	70
Specific Gravity	UNI 7092 ASTM D792 DIN 53479 AFNOR 46-030	g/cm^3	0,03	1,65
Tensile Strenght	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	MPa	Min	3
Elongation At Break	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	%	Min	200
Tear Strenght	UNI 4914C ASTM D624 DIN 53515 AFNOR 46-007	N/mm	Min	15
Abrasion Resistance	UNI 9185 ISO 4649 DIN 53515 AFNOR 46-012	mm^3	Max	

Ageing Air 72 h - 70°C	Hardness	UNI ISO 188 ASTM D573 DIN 53508 AFNOR 46-004	Shore A	Max	+5
	Tensile Strenght		%	Max	-20
	Elongation		%	Max	-30
Ageing Water 72 h - 50°C	Hardness	UNI 8313/2° ASTM D471 DIN 53521 AFNOR 46-013	Shore A	Max	-6
	Volume		%	Max	+5
Min. and Max Working Temperatures IN AIR			°C		+70 / -20
Min. and Max Working Temperatures IN WATER			°C		+70
Color			Black		

NOTE	1 MPa= 10,2 Kg/cm^2 1 N/mm= 1,02 Kg/cm

The reported values are for guidance purposes only and are issued in order to provide a guideline for product selection. They could be changed without notice or / and any commitment by the Company.

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AA120/1012 - SBR BLACK RUBBER

DESCRIPTION & APPLICATIONS

Very hard sheet based on SBR rubber with moderate mechanical properties.

Technical features	*Spec.*	*Units of measure*	*Tolerances*	*Values*
Hardness	UNI 4916 ASTM D2240 DIN 53505 AFNOR 46-0562	Shore A	+/- 5	82
Specific Gravity	UNI 7092 ASTM D792 DIN 53479 AFNOR 46-030	g/cm^3	+/- 0,03	1,63
Tensile Strenght	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	MPa	Min	5
Elongation At Break	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	%	Min	250
Tear Strenght	UNI 4914C ASTM D624 DIN 53515 AFNOR 46-007	N/mm	Min	20
Abrasion Resistance	UNI 9185 ISO 4649 DIN 53515 AFNOR 46-012	mm^3	Max	

Ageing Air 72 h - 70°C	Hardness	UNI ISO 188 ASTM D573 DIN 53508 AFNOR 46-004	Shore A	Max	+6
	Tensile Strenght		%	Max	-20
	Elongation		%	Max	-30
Ageing Water 72 h - 50°C	Hardness	UNI 8313/2° ASTM D471 DIN 53521 AFNOR 46-013	Shore A	Max	-5
	Volume		%	Max	+5
Min. and Max Working Temperatures IN AIR			°C		+70 / -20
Min. and Max Working Temperatures IN WATER			°C		+70
Color			Black		

NOTE	1 MPa= 10,2 Kg/cm^2 1 N/mm= 1,02 Kg/cm

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AA55 - EPDM BLACK RUBBER

DESCRIPTION & APPLICATIONS

Sheet based on EPDM (Ethylene - Propylene Rubber) with good resistance to atmospheric agent and ozone. Good mechanical properities.

Technical features	Spec.	Units of measure	Tolerances	Values
Hardness	UNI 4916 ASTM D2240 DIN 53505 AFNOR 46-0562	Shore A	+/- 5	60
Specific Gravity	UNI 7092 ASTM D792 DIN 53479 AFNOR 46-030	g/cm^3	0,03	1,26
Tensile Strenght	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	MPa	Min	7,0
Elongation At Break	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	%	Min	400
Tear Strenght	UNI 4914C ASTM D624 DIN 53515 AFNOR 46-007	N/mm	Min	20
Resistenza alla abrasione	UNI 9185 ISO 4649 DIN 53515 AFNOR 46-012	mm^3	Max	

Ageing AIR 72 h - 100°C	Hardness	UNI ISO 188 ASTM D573 DIN 53508 AFNOR 46-004	Shore A	Max	+8
	Tensile Strenght		%	Max	-20
	Elongation		%	Max	-40
Ageing WATER 72 h - 100°C	Hardness	UNI 8313/2° ASTM D471 DIN 53521 AFNOR 46-013	Shore A	Max	-5
	Volume		%	Max	+5
Min. and Max Working Temperatures IN AIR			°C		+100 / -25
Min. and Max Working Temperatures IN WATER			°C		+90
Color			Black		

NOTE	1 MPa= 10,2 Kg/cm2 1 N/mm= 1,02 Kg/cm

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AA125C - NBR BLACK RUBBER

DESCRIPTION & APPLICATIONS

Sheet based on NBR (Nitrile Rubber) with good Oil and Fuel resistance and with good mechanical properties. Maximum working temperature 100°C.

Technical features	Spec.	Units of measure	Tolerances	Values
Hardness	UNI 4916 ASTM D2240 DIN 53505 AFNOR 46-0562	Shore A	+/- 5	72
Specific Gravity	UNI 7092 ASTM D792 DIN 53479 AFNOR 46-030	g/cm^3	0,03	1,4
Tensile Strenght	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	MPa	Min	10
Elongation At Break	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	%	Min	320
Tear Strenght	UNI 4914C ASTM D624 DIN 53515 AFNOR 46-007	N/mm	Min	35
Abrasion Resistance	UNI 9185 ISO 4649 DIN 53515 AFNOR 46-012	mm^3	Max	

Ageing ASTM 3 Olio 72 h - 100°C	Hardness	UNI ISO 188 ASTM D573 DIN 53508 AFNOR 46-004	Shore A	Max	-8
	Volume		%	Max	+10
Ageing Carburante 72 h - 23°C	Hardness	UNI 8313/2° ASTM D471 DIN 53521 AFNOR 46-013	Shore A	Max	-20
	Volume		%	Max	+30
Min. and Max Working Temperatures IN AIR			°C		+100 / -15
Min. and Max Working Temperatures IN WATER			°C		+90
Min. and Max Working Temperatures IN OIL			°C		+100
Color			Black		

NOTE	1 MPa= 10,2 Kg/cm2 1 N/mm= 1,02 Kg/cm

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AA125N - CR/SBR BLACK RUBBER

DESCRIPTION & APPLICATIONS

Sheet based on CR (Polycloroprene rubber) and SBR rubber with good resistance to oils at room temperature and to atmospheric agent. Good mechanical properties.

Technical features	Spec.	Units of measure	Tolerances	Values
Hardness	UNI 4916 ASTM D2240 DIN 53505 AFNOR 46-0562	Shore A	+/- 5	65
Specific Gravity	UNI 7092 ASTM D792 DIN 53479 AFNOR 46-030	g/cm^3	0,03	1,48
Tensile Strenght	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	MPa	Min	9
Elongation At Break	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	%	Min	300
Tear Strenght	UNI 4914C ASTM D624 DIN 53515 AFNOR 46-007	N/mm	Min	25
Abrasion Resistance	UNI 9185 ISO 4649 DIN 53515 AFNOR 46-012	mm^3	Max	

Ageing Air 72 h - 70°C	Hardness	UNI ISO 188 ASTM D573 DIN 53508 AFNOR 46-004	Shore A	Max	+7
	Tensile Strenght		%	Max	-10
	Elongation		%	Max	-20
Ageing Water 72 h - 70°C	Hardness	UNI 8313/2° ASTM D471 DIN 53521 AFNOR 46-013	Shore A	Max	-7
	Volume		%	Max	+7
Min. and Max Working Temperatures IN AIR			°C		+90 / -20
Min. and Max Working Temperatures IN oil			°C		+20
Min. and Max Working Temperatures IN WATER			°C		+70
Color			Black		

NOTE	1 MPa= 10,2 Kg/cm2 1 N/mm= 1,02 Kg/cm

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AA125S - NBR/SBR BLACK RUBBER

DESCRIPTION & APPLICATIONS

Sheet based on NBR (Nitrile Rubber) and SBR rubber with good Oil Resistance at room temperature with moderate mechanical properties.

Technical features	Spec.	Units of measure	Tolerances	Values
Hardness	UNI 4916 ASTM D2240 DIN 53505 AFNOR 46-0562	Shore A	+/- 5	70
Specific Gravity	UNI 7092 ASTM D792 DIN 53479 AFNOR 46-030	g/cm^3	0,03	1,55
Tensile Strenght	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	MPa	Min	+5
Elongation At Break	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	%	Min	250
Tear Strenght	UNI 4914C ASTM D624 DIN 53515 AFNOR 46-007	N/mm	Min	15
Abrasion Resistance	UNI 9185 ISO 4649 DIN 53515 AFNOR 46-012	mm^3	Max	

Ageing ASTM 1 72 h - 23°C	Hardness	UNI ISO 188 ASTM D573 DIN 53508 AFNOR 46-004	Shore A	Max	+3
	Volume		%	Max	-3
Ageing ASTM 3 72 h - 23°C	Hardness	UNI 8313/2° ASTM D471 DIN 53521 AFNOR 46-013	Shore A	Max	-7
	Volume		%	Max	+7
Min. and Max Working Temperatures IN AIR			°C		+70 / -20
Min. and Max Working Temperatures IN WATER			°C		+20
Min. and Max Working Temperatures IN OIL			°C		+80
Color			Black		

NOTE	1 MPa= 10,2 Kg/cm2 1 N/mm= 1,02 Kg/cm

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AA306 - NBR WHITE RUBBER

DESCRIPTION & APPLICATIONS

Sheet based on NBR white rubber. Suitable for contact with food and oils.

Technical features	Spec.	Units of measure	Tolerances	Values
Hardness	UNI 4916 ASTM D2240 DIN 53505 AFNOR 46-0562	Shore A	+/- 5	60
Specific Gravity	UNI 7092 ASTM D792 DIN 53479 AFNOR 46-030	g/cm^3	0,03	1,3
Tensile Strenght	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	MPa	Min	9
Elongation At Break	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	%	Min	400
Tear Strenght	UNI 4914C ASTM D624 DIN 53515 AFNOR 46-007	N/mm	Min	22
Abrasion Resistance	UNI 9185 ISO 4649 DIN 53515 AFNOR 46-012	mm^3	Max	

Ageing Air 72 h - 100°C	Hardness	UNI ISO 188 ASTM D573 DIN 53508 AFNOR 46-004	Shore A	Max	+8
	Tensile Strenght		%	Max	-20
	Elongation		%	Max	-40
Ageing Water 72 h - 100°C	Hardness	UNI 8313/2° ASTM D471 DIN 53521 AFNOR 46-013	Shore A	Max	-8
	Volume		%	Max	+10
Min. and Max Working Temperatures IN AIR			°C		+100 / -20
Min. and Max Working Temperatures IN OIL			°C		+100
Min. and Max Working Temperatures IN WATER			°C		+90
Color			White		

NOTE	1 MPa= 10,2 Kg/cm2 1 N/mm= 1,02 Kg/cm

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PARA 36TD - NATURAL RUBBER

DESCRIPTION & APPLICATIONS

Clear coloured semitrasparent sheet based on NR (Natural Rubber) with excellent mechanical properties. Endowed with very good elasticity and softness. Low specific gravity (it keeps afloat in the water).

Technical features	Spec.	Units of measure	Tolerances	Values
Hardness	UNI 4916 ASTM D2240 DIN 53505 AFNOR 46-0562	Shore A	+/- 5	40
Specific Gravity	UNI 7092 ASTM D792 DIN 53479 AFNOR 46-030	g/cm^3	0,03	0,97
Tensile Strenght	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	MPa	Min	20
Elongation At Break	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	%	Min	550
Tear Strenght	UNI 4914C ASTM D624 DIN 53515 AFNOR 46-007	N/mm	Min	40
Abrasion Resistance	UNI 9185 ISO 4649 DIN 53515 AFNOR 46-012	mm^3	Max	

Ageing Air 72 h - 70°C	Hardness	UNI ISO 188 ASTM D573 DIN 53508 AFNOR 46-004	Shore A	Max	+3
	Tensile Strenght		%	Max	-40
	Elongation		%	Max	-40
Ageing Water 72 h - 50°C	Hardness	UNI 8313/2° ASTM D471 DIN 53521 AFNOR 46-013	Shore A	Max	-3
	Volume		%	Max	+3
Min. and Max Working Temperatures IN AIR			°C		+70 / -35
Min. and Max Working Temperatures IN WATER			°C		+70
Color			Light Brown		

NOTE	1 MPa= 10,2 Kg/cm2 1 N/mm= 1,02 Kg/cm

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RED SILICONE 60

DESCRIPTION & APPLICATIONS

Sheet based on VMQ (Silicone rubber) with excellent resistance to high and low temperatures. Highly resistant to atmospheric agents and ozone, good resistance to oxiding agents and to liquid residue.

Technical features	*Spec.*	*Units of measure*	*Tolerances*	*Values*
Hardness	UNI 4916 ASTM D2240 DIN 53505 AFNOR 46-0562	Shore A	+/- 5	60
Specific Gravity	UNI 7092 ASTM D792 DIN 53479 AFNOR 46-030	g/cm^3	0,03	1,28
Tensile Strenght	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	MPa	Min	5
Elongation At Break	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	%	Min	300
Tear Strenght	UNI 4914C ASTM D624 DIN 53515 AFNOR 46-007	N/mm	Min	10
Abrasion Resistance	UNI 9185 ISO 4649 DIN 53515 AFNOR 46-012	mm^3	Max	

Ageing Air 72 h - 70°C	Hardness	UNI ISO 188 ASTM D573 DIN 53508 AFNOR 46-004	Shore A	Max	+10
	Tensile Strenght		%	Max	-15
	Elongation		%	Max	-30
Ageing Water 72 h - 70°C	Hardness	UNI 8313/2° ASTM D471 DIN 53521 AFNOR 46-013	Shore A	Max	
	Volume		%	Max	
Min. and Max Working Temperatures IN AIR			°C		+180 / -50
Min. and Max Working Temperatures IN oil			°C		no
Min. and Max Working Temperatures IN WATER			°C		+100
Color			Red		

NOTE	1 MPa= 10,2 Kg/cm2 1 N/mm= 1,02 Kg/cm

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FLUOROPOLYMER

DESCRIPTION & APPLICATIONS

Sheet based on FKM (Fluorinated rubber) with excellent resistance to high temperatures. Highly resistant to oils, fuels and ozone. Good mechanical properties.

Technical features	*Spec.*	*Units of measure*	*Tolerances*	*Values*
Hardness	UNI 4916 ASTM D2240 DIN 53505 AFNOR 46-0562	Shore A	+/- 5	75
Specific Gravity	UNI 7092 ASTM D792 DIN 53479 AFNOR 46-030	g/cm^3	0,03	1,9
Tensile Strenght	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	MPa	Min	7
Elongation At Break	UNI 6065 ASTM D412 DIN 53504 AFNOR 46-002	%	Min	270
Tear Strenght	UNI 4914C ASTM D624 DIN 53515 AFNOR 46-007	N/mm	Min	20
Abrasion Resistance	UNI 9185 ISO 4649 DIN 53515 AFNOR 46-012	mm^3	Max	

Ageing Air 72 h - 70°C	Hardness	UNI ISO 188 ASTM D573 DIN 53508 AFNOR 46-004	Shore A	Max	+3
	Tensile Strenght		%	Max	-10
	Elongation		%	Max	-20
Ageing Water 72 h - 70°C	Hardness	UNI 8313/2° ASTM D471 DIN 53521 AFNOR 46-013	Shore A	Max	-10
	Volume		%	Max	+10
Min. and Max Working Temperatures IN AIR			°C		+200 / -10
Min. and Max Working Temperatures IN oil			°C		+150
Min. and Max Working Temperatures IN WATER			°C		+100
Color			Black		

NOTE	1 MPa= 10,2 Kg/cm2 1 N/mm= 1,02 Kg/cm

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KARPRENE

GENERALITY

KARPRENE is a synthetic elastomer belonging to the group of polyurethanes.
The particular formulation of the blend provides the finished product higher chemical-physical and mechanical characteristics if compared with rubber. **KARPRENE** is also suitable for technical applications where a high-performance elastomer is required.
KARPRENE can be supplied in slabs, rods, sleeves, shaped parts made upon request and as a coating on metal pieces.

FEATURES

Abrasion resistance	Eight times higher than the conventional elastomers.
Friction coefficient	Particularly low even in the absence of self-lubrication.
Impact resistance	Higher than plastic materials, particularly at low temperatures.

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KARPRENE FDA

GENERALITY

KARPRENE FDA is a synthetic elastomer belonging to the group of polyurethanes. The particular formulation of the blend provides the finished product higher chemical-physical and mechanical characteristics if compared with rubber. **KARPRENE** is also suitable for technical applications where a high-performance elastomer is required.

KARPRENE FDA is in complaince with:
D.M. 21/03/1973, CE 1935/2004 regulation, FDA parameters.

FEATURES

Hardness	from 60 to 94 Sh A
Working Temperature	from -20°C to +90°C
Color	Neutral
Mechanical properties	Excellent abrasion resistance, low friction coefficient and excellent resistance to impact and compression.

HARDNESS Sh A	60	70	75	80	90	94
Module 100% (MPa)	1,5	2,7	2,7	4,7	7,3	9,9
Module 300% (MPa)	1,6	5,0	5,3	8,8	12,5	18,3
Breaking point (MPa)	12,0	32,8	41,1	49,5	48,4	46,3
Elongation at break (%)	693	523	517	530	503	503
Tearing resistance (KN/m)	11,5	14,0	14,3	19,2	24,5	36,7

DIELECTRIC MAT

GENERALITY

It is a special carpet, made in NR-SBR rubber, specifically designed to electrically insulate electric board floor, according to **Regulation VDE 0303-21:1999 part 2**, to insulate at **17,30,50 KV voltage**. Grey colour with non-skid stepping side, grated or lined shape, under-layer in textile yarn, with conformity marking strip.

APPLICATIONS

Insulation of electric cabins, working areas nearby electric boards and specifically wherever an high electric insulation is required, in the Naval and Industrial field.

CODE	Lower surface	Upper surface	Colour	Thickness mm	Size mt	Weight kg/mq	Test voltage
3401.3057	Textile yarn	Lined	Grey	3	1x10	4,9	17 kV
3401.3057/1	Textile yarn	Lined	Grey	4,5	1x10	7,3	36 kV
Upon request	Textile yarn	Grated	Grey	4	1,2x10	6,5	50 kV

- **Mass resistivity according to DIN 53482:** $> 10^{12}$ Ω/cm
- **Surface resistivity according to DIN 53482:** $> 10^{12}$ Ω

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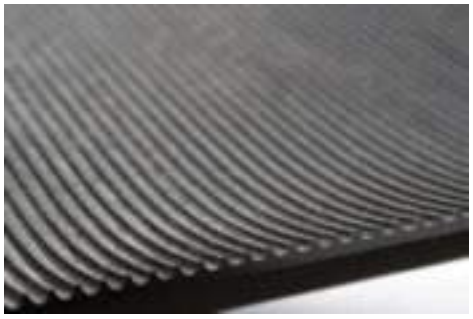
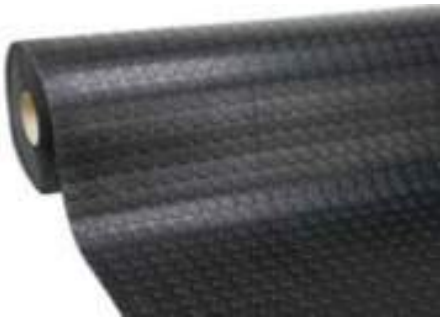
RUBBER MATS

GENERALITY

SBR rubber mat suitable for general use Available in stud or ribbed version, it is suitable for use indoors where no special mechanical properties are required.





APPLICATIONS

Used as anti slip surface for industrial floors and general surfaces.

Code	Surface	Color	Thickness mm	H mt	L mt	Weight kg/mq
3401.2420	stud	black	3,3	1,2	10	4,7
3401.1000	ribbed		3	1		3,9

Features	Units of measure	Value
Hardness	Shore A	70 +/-5
Specific Gravity	g/cm^3	1,35
Tensile Strenght	MPa	3
Elongation at break	%	150
Abrasion resistance	mm^3	300
Working Temperature	°C	-20 / +70

Note

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Transmission Elements

TRANSMISSION ELEMENTS

STANDARD DRIVE BELTS

Available in stock a wide range of standard drive belts sections type A, B, C, SPA, SPB, SPC, SPZ.
Cog belts available upon request.

SPECIAL DRIVE BELTS

Also available upon request:
- coated on the back of expanded rubber
- made in rubber or polyurethane, also with metal reinforcement
- V-Belt with Nylon bristle insertion.

FLEXIBLE ELEMENTS

Available in stock a wide range of rubber and polyurethane flexible elements.
Flexible couplings upon request.

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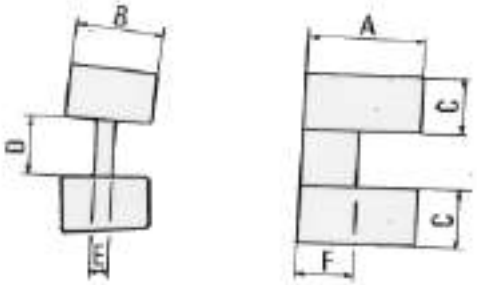
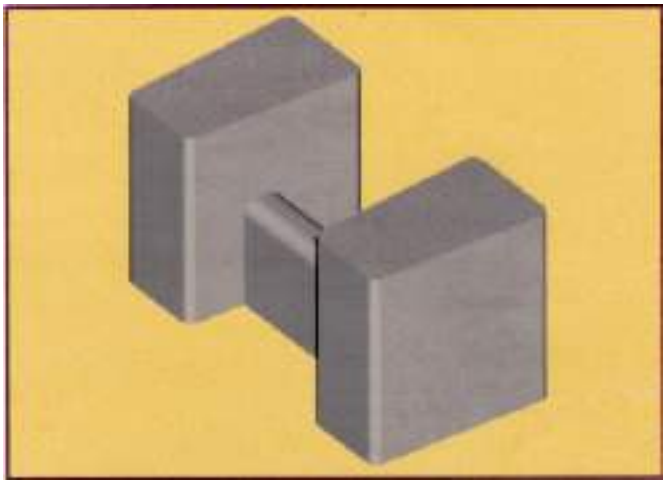
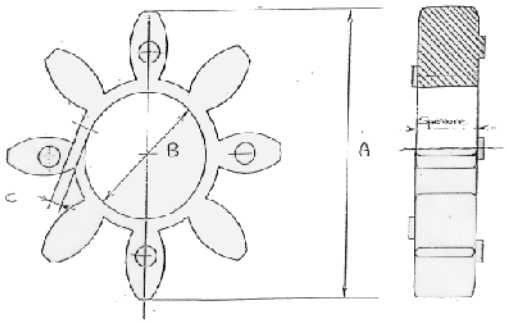
SAPIT



Code	Type	A	B	C	D	E	F
8715.1000	IR 10	10	10	5	6	2	6
8715.1200	IR 12	16	12	11,5	9	2,5	10
8715.1600	IR 16	16	16	11,4	12	3	9
8715.2000	IR 20	20	20	11,5	17	3,5	11
8715.2530	IR 25/30	30	25	15	25	4,5	13
8715.3500	IR 35	35	35	19,5	26	5	16
8715.5500	IR 55/70	55	50	24	30	8	30



ROTEX



Code	Type	A	B	C	Tck
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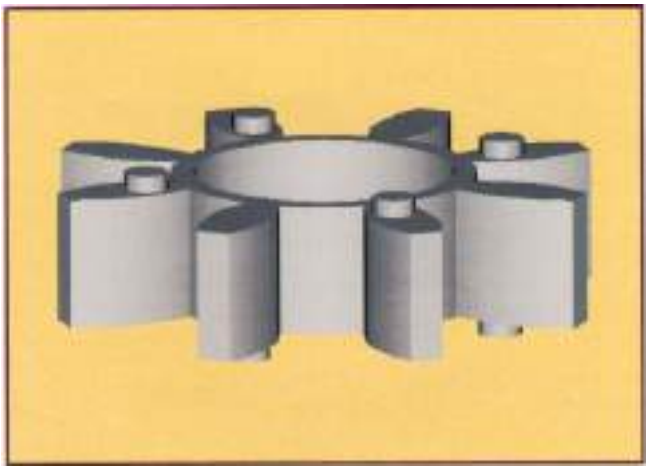
8716.2432	24/32	55	27	2,5	14
8716.2838	28/38	65	30	2,5	15
8716.3845	38/45	80	38	2,5	18
8716.4255	42/55	95	46	3	20
8716.4860	48/60	105	51	4	21
8716.5570	55/70	120	60	5	22
8716.6575	65/75	135	68	6	26



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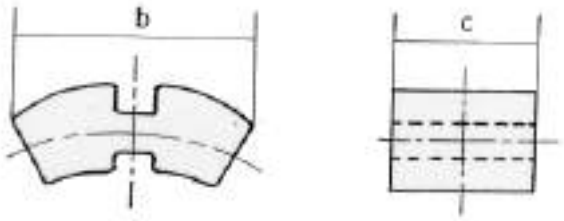
EUPEX



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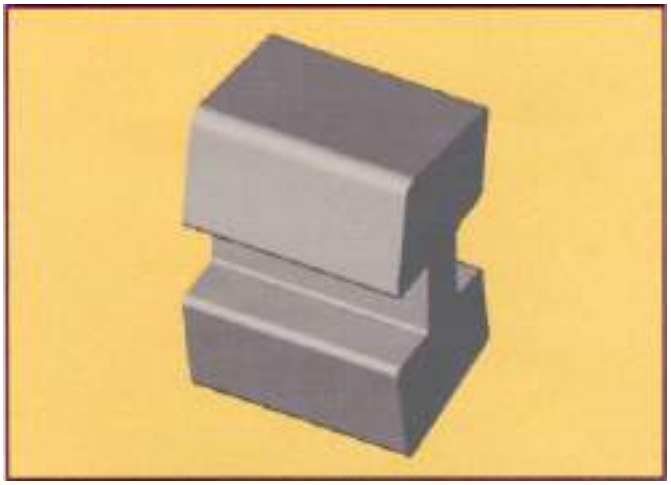
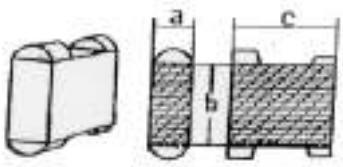
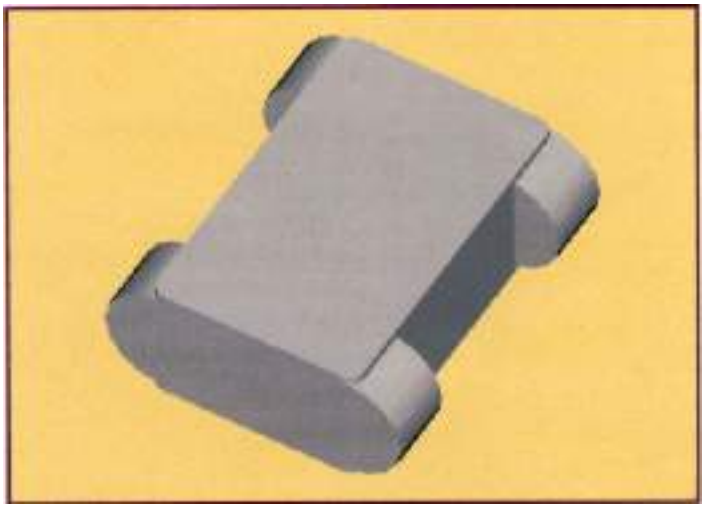
8715.6799	IR 68	9	23
8715.6800	IR 80	10	20
8715.6801	IR 95	12	25
8715.6802	IR 110	15	29
8715.6803	IR 125	18	33
8715.6804	IR 140	20	37
8715.6805	IR 160	22	37
8715.6806	IR 180	24	36
8715.6807	IR 200	27	38
8715.6808	IR 225	31	43
8715.6809	IR 250	35	47
8715.6810	IR 280	39	52
8715.6811	IR 315	42	50
8715.6812	IR 350	45	56



API / BLOMING



Code	Type	a	b	c
8715.6901	A	6,5	10	15
8715.6902	B	8	14	18
8715.6903	C	11	17	25
8715.6904	D	15	22	39
8715.6905	E	19	30	49
8715.6906	N	15	30	39
8715.6907	P	20	40	49
8715.6908	R	21	40	64
8715.6909	S	12	20	30



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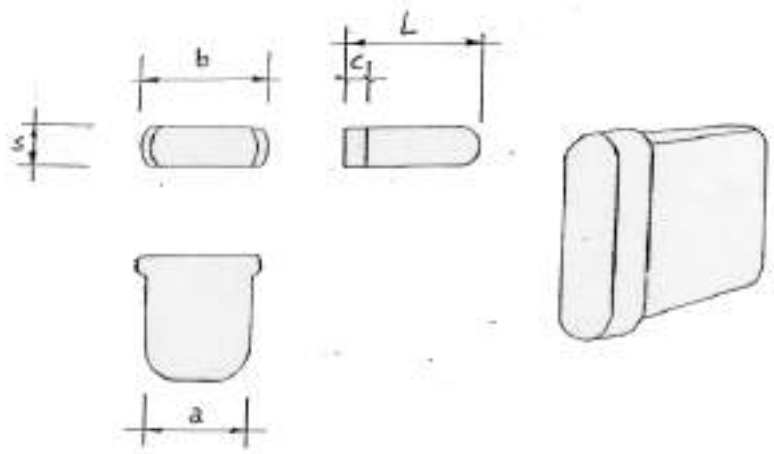
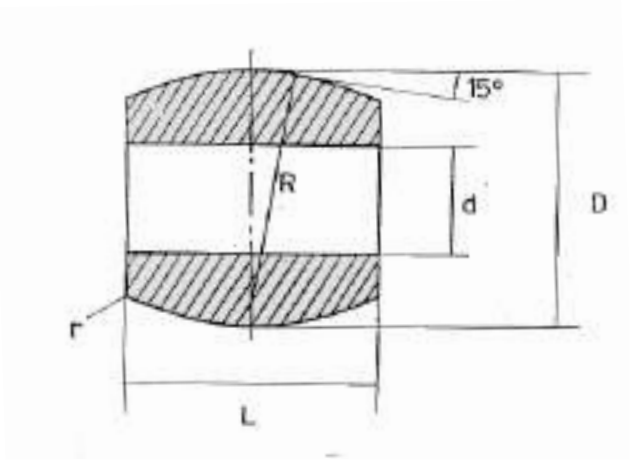
"T"

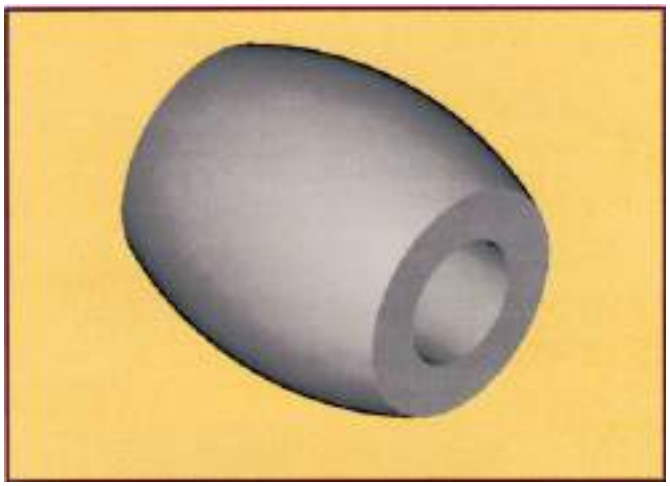


Code	Type	a	b	c	L	s
8715.8500	AMB 0	15	16	2	16	7
8715.8501	AMB 1	16	18	2	18	7
8715.8502	AMB 2	25	29	4	28	8
8715.8503	AMB 3	26	31	4	30	10
8715.8504	AMB 4	41	44	4	41	8

BARREL



Code	Type	D	d	L
8716.0100	IR 100	20	8	22
8716.0200	IR 200	24	10	26
8716.0300	IR 300	30	12	34
8716.0400	IR 400	38	16	42
8716.0500	IR 500	48	20	52
8716.0600	IR 600	60	25	66



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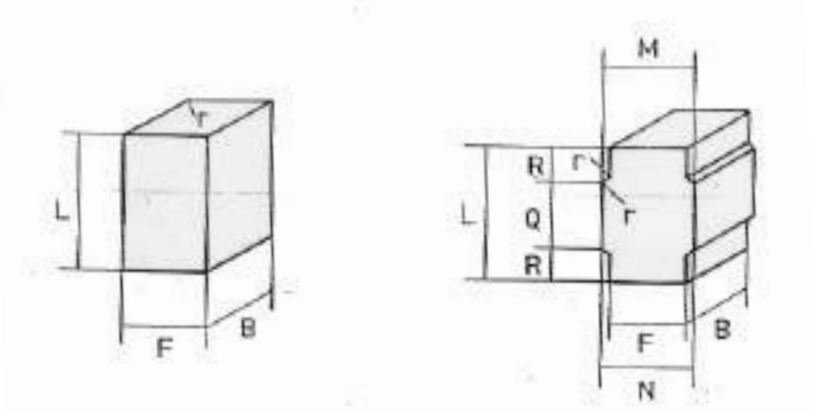
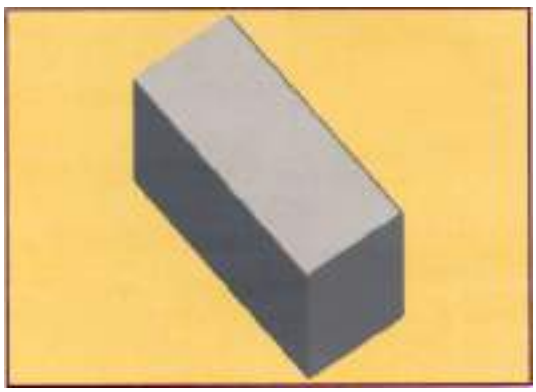
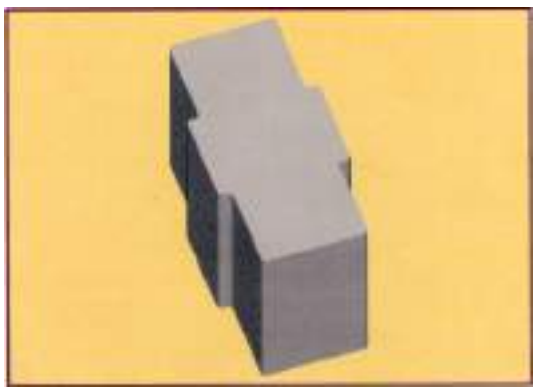
"N" or "M"

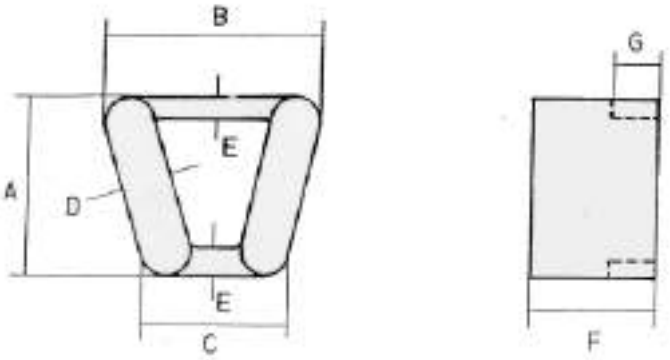


Code	Type	L	B	F
8716.105N o M	IR 5-N/M	21	15	10
8716.106N o M	IR 6-N/M	21	15	10
8716.107N o M	IR 7-N/M	21	15	10
8716.108N o M	IR 8-N/M	23	20	10
8716.109N o M	IR 9-N/M	29	20	12
8716.110N o M	IR 10-N/M	35	20	14
8716.111N o M	IR 11-N/M	43	25	16
8716.112N o M	IR 12-N/M	53	30	20
8716.113N o M	IR 13-N/M	59	35	20
8716.114N o M	IR 14-N/M	61	40	24
8716.115N o M	IR 15-N/M	61	45	24
8716.116N o M	IR 16-N/M	63	50	28
8716.117N o M	IR 17-N/M	75	60	30
8716.118N o M	IR 18-N/M	88	70	35
8716.119N o M	IR 19-N/M	98	80	35
8716.120N o M	IR 20-N/M	128	90	40
8716.121N o M	IR 21-N/M	148	100	45

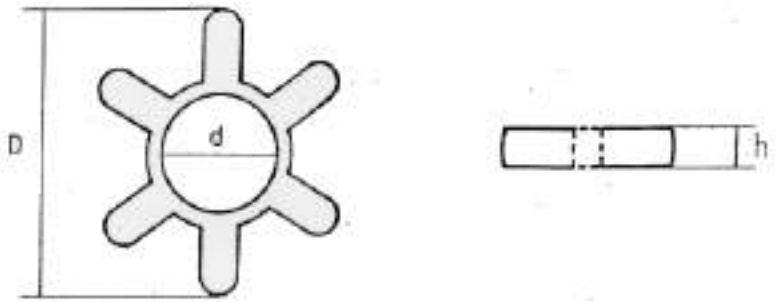




RU-STEEL



Code	Type	A	B	D	C	F
8715.8004	A4	25	37	10	30	22
8715.8005	A5	30	42	11	32	25
8715.8006	A6	34	52	12	40	30
8715.8007	A7	44	62	14	45	39
8715.8008	A8	46	62	17	50	40



Code	Type	D	d	h
8715.8001	A1	49	24	13,5
8715.8002	A2	68	32	17
8715.8003	A3	85	39	19,5

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Connection and Expansion Joints

EKAFLEX
TEXTILE EXPANSION JOINTS

GENERALITY

Ekaflex joints are used as connecting elements between rigid pipes in various applications in the naval and industrial field. Where suitable, they are extremely advantageous compared to a rubber joint or steel. Considering the same size, they are able to support bigger displacements, have a smaller dimension and a limited weight. Easy to be installed, it does not require maintenance. Accidental breakage can be easily repaired even by unskilled personnel. They can be made in any shape and size able to satisfy the most varied requirements of application.

STRUCTURE

Ekaflex are made by overlapping layers of fabric suitably selected according to the operating conditions and fluids. A series of internal layers enables the joint to be stress and temperature resistant. The outer layer (generally silicon rubber), make it waterproof. They are able to work within a temperature range that goes from - 60 ° C to + 1200 ° C and with variable maximum pressures depending on their structure.

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LAYERS FEATURES

Silica or Fiberglass textiles

They are made with Silica or Fiberglass yarn and guarantee an excellent resistance to high temperatures (650 °C glass - 1000 °C silica). They also offer excellent resistance to most chemicals.

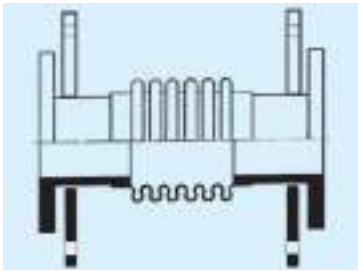
Externally it is applied a layer of glass fabric with silicone which guarantees the perfect watertightness.

Reinforcing elements

To ensure the highest gas impermeability, special glass-PTFE layers are inserted inside the joint. The whole joint can be also reinforced by inserting a thin metal wire mesh net. The final product is than completed by sealing the inner and outer layers with silicone adhesives. The result is an extremely flexible and waterproof expansion joint.

EXPANFLEX MB-E1

STAINLESS STEEL EXPANSION JOINTS, RINA APPROVED



APPROVED

RINA

EXPANFLEX MB-E1 is an axial Type Approved multiwall expansion joint, without circumferential weld. Made in AISI 321 Stainless Steel T.I.G. welded, or other grades of Stainless Steel upon request. Designed with flanged or weld ends, in accordance with UNI, ASA or Customer specifications. An internal sleeve made of Stainless Steel can be supplied upon request.

From ND 40 to ND 800
Special diameters available upon request

Features

Excellent reliability, no ageing, absence of permeability, resistant to corrosion, high working temperature.
The corrugations are formed by a controlled process which made **EXPANFLEX MB-E1** free from friction and lamination, allowing constancy and accuracy of the corrugation profile with minimal material yielding. Internal sleeve made from rolled and welded austenitic stainless steel plate is available upon request.

Suitable for correction of static offsets and compensation for thermal expansion and movements in the presence of hydraulic oil, diesel fuel, naptha, brine, fresh water, sea water, air vent, compressed air, desalination, lubricant oil, steam up to 220°C.

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MB MED FIREPROOF RUBJOINT

FUEL LINE RUBBER JOINT - MED APPROVAL

S.O.L.A.S. regulations, Safety Of Life At Sea, are generally regarded as the most important of all international treaties concerning the safety of merchant ships. The actual regulations, dated 1974, with its amendments has been adopted also in Europe as a guidelines for the maritime field.

In compliance with the above mentioned regulation, fuel line hoses shall be constructed in accordance with **MED 2002/75/EC** directive concerning fire resistance requirements of the fuel pipelines.

MB MED FIREPROOF RUBJOINT completely satisfy the technical requirements recommended in the 96/98/CE directive and further amendments ISO 15540:1999 and ISO 15541:1999 where technical parameters are fixed. The expansion joint is covered with a special fire resistant fiberglass sleeve, easy to be installed thanks to stainless steel springs and hooks.

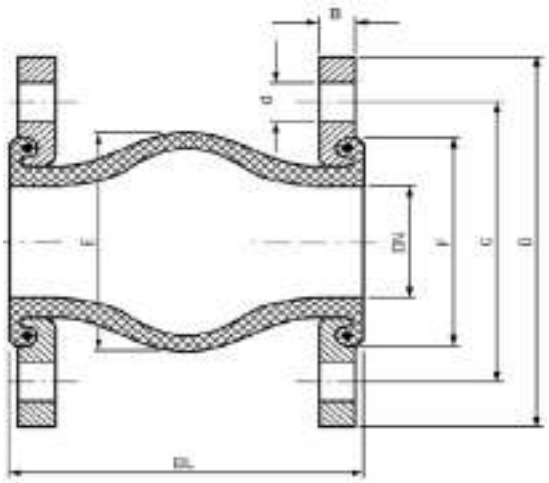
To satisfy the above mentioned requirements, **MB MED FIREPROOF RUBJOINT** has been tested by applying a flame for 30 minutes at the required temperature of 800 +/- 50°C with a working pressure of 5 bar. The specimen is than tested at a pressure twice the working parameter for 15 minutes, in order to confirm that the flexible hose is in conformity with the specifications.

- MB MED FIREPROOF RUBJOINT -

DIMENSIONS E TECHNICAL DATA

Working Pressure 1,6 MPa (Safety factor 1:4)
1 MPa = 1 N/mm²= 10 Bar

DN	Lenght	E	F	COMPENSATION				Vacuum		Weight
								No Spring	Spring	
mm	mm	mm	mm	C	A	L	AN			Kg
25/32	130	77	72	30	20	20	35°	0,8	1,0	2,8
40	130	85	80	30	20	20	35°	0,8	1,0	3,3
50	130	95	90	30	20	20	35°	0,7	1,0	3,7
65	130	110	105	30	20	20	30°	0,6	1,0	4,8
80	130	125	120	30	20	20	30°	0,5	1,0	5,3
100	130	145	140	30	20	20	25°	0,5	1,0	6,2
125	130	170	165	30	20	20	25°	0,4	1,0	8,2
150	130	195	190	30	20	20	15°	0,3	1,0	11,2
200	130	245	240	30	20	20	15°	0,3	1,0	16,8
250	130	295	290	30	20	20	10°	0,2	1,0	21,6
300	130	345	340	30	20	20	10°	0,2	1,0	30,1
C= compression				***A***= elongation			***L***= lateral		***AN***= angular	
For flanges dimensions see standard regulations										



MED APPROVED FUEL LINES ALSO AVAILABLE

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TYPE APPROVED RUBBER EXPANSION JOINTS

GENERALITY

Joints rubber bellows expressely designed to ensure the compensation of thermal expansion and vibration damping in the pipelines. The floating flanges, available in carbon steel or AISI 316, UNI or ASA, ensure ease and speed of installation.

APPLICATIONS

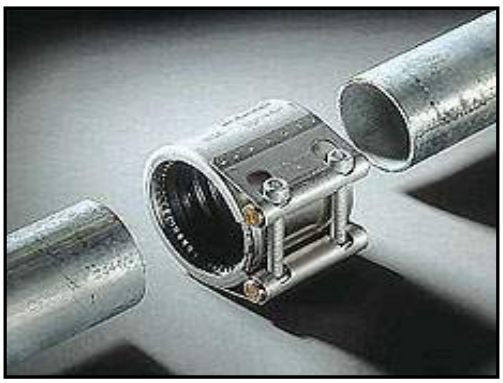
The bodies are made of different elastomers to ensure a solution for every application. Available in different lengths, are suitable in plants and premises for industrial and civil applications to compensate for extension caused by temperature change and axial movements, as well as to dampen vibrations and noise arising from pumps, motors, turbines etc.

APPROVALS

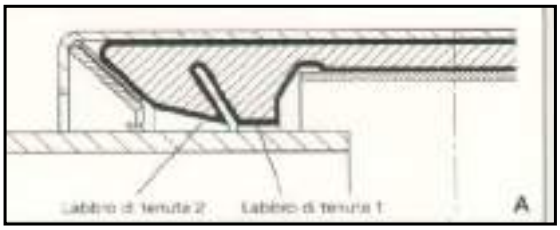
Type Approved by the major Classification Societies.

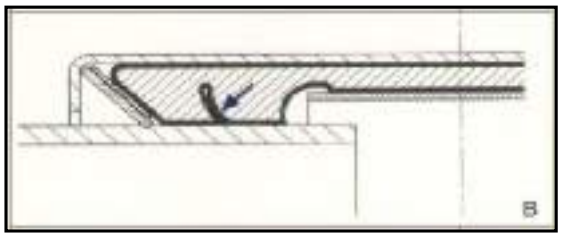
PIPECONNECT
STAINLESS STEEL EXPANSION JOINTS

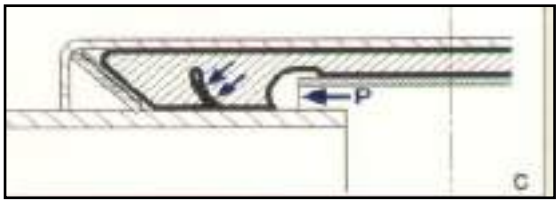
PIPECONNECT, jointing system in stainless steel, is an effective, fast and economical solution for all your needs, both in the marine and industrial sectors. It is suitable for the connection of metal pipes, to replace flanged joints, welded or threaded.



Built in a simple way, it is the most technically advanced, practical and economical instrument for the maintenance responsible for both naval and insutrial installations.
They can be be used in the presence of axial movements. The toothed conical ring perfectly adheres to the surface of the pipe, giving the joint an excellent resistance to vibration and, thanks to special internal seals, is ensured a perfect seal.







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Greases and Lubricants

MOLYSLIP
HIGH PERFORMANCE LUBRICANTS

GENERALITY

Molyslip Atlantic Limited is an independent UK-based manufacturer of specialised lubricants, and has been selling products at home and abroad since the 1940's.
These products are suitable for Marine/Off-shore, Ship Building, Repair and Maintenance, Automotive, Metal-working, and Food and Beverage production and packaging. The product range is concentrated around anti-seize compounds and molybdenum enriched oils and greases, which help prolong machine, component and tool life, and save engineers' time and money by reducing 'down-time'

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COPASLIP

Anti-seize compound specially formulated to protect against seizure even in extreme conditions of temperature and pressure. It also protects against rust, oxidation and other corrosion.
It allows correct torque to be applied by eliminating thread interference and ensures rapid and easy assembly of threaded parts. It prevents seizing and galling and gives quick and easy breakout of threads, gaskets and packings even after long exposure to high temperature, corrosive conditions or extreme surface pressures. It also reduces wear in areas of high friction.
Operating temperature from -40°C up to + 1100° C. Solidifying Temperature - 18°C. Flash Point of Base Oil 250 °C.

AS 40

Anti-Scuff Paste is a gelled lubricating oil, containing 40% molybdenum disulphide and 15% graphite, forming a soft paste. It also contains rust and corrosion inhibitors.
The load carrying capacity of MoS2 is in excess of 140,000 p.s.i., above the yield point of most metals, and cold forming of metal under the MoS2 film can take place without “welding” or pick up occurring.Thus, by applying AS40, wear or damage can be prevented, when a hydrodynamic oil film is not present as in new engine start up.
Operating temperature from -100°C up to + 150° C. Flash Point of Base Oil > 200 °C.

ARVINA HX 2

A multi-purpose moly EP lithium grease. Formulated for extreme pressure load bearing capacity and resistance to oxidation and corrosion. It helps to prolong periods between maintenance and routine greasing.
Lithium based with Molybdenum Disulphide, extreme pressure and anti-corrosion additives. Formulated to provide exceptionally high load bearing capacity enabling prolonged maintenance and routine greasing intervals. Provides rust prevention and minimises fretting corrosion.Good resistance against fresh or salt water ontamination.
Operating temperature from -20°C up to + 140° C. Melting point 280°C.

ARVINA MB2

Bentone grease with molybdenum disulphide. The bentone base gives great stability at high temperatures, resistance to water and acids, and infusibility. It will not soften under heavy working conditions up to its working temperature limit.
All medium and large size plain bearings, large diameter ball and roller bearings running at low speeds. For mechanical equipment, particularly when exposed to severe weather conditions or subjected to extreme loads i.e. cranes - conveyor systems - ore crushers - rolling mills etc.
Operating temperature from -30°C up to + 150° C. Flash Point of Base Oil 300 °C.

ARVINA FM2

NSF H1 registered and meets USDA 1998 H1 guidelines. It is a non-melting, non-toxic, waterproof, high-performance grease. It is registered by NSF International for incidental food contact (H1) for use in and around food processing areas.
Made with a specially refined white oil compounded with an inert non-soap base and contains an advanced multi-functional additive which gives anti-wear properties which inhibits both rust and corrosion. It has been developed to ensure the most efficient operation of plant, processing and packaging foodstuffs, with the minimum possibility of harmful contamination of the product by the lubricant.
Operating temperature from -40°C up to + 200° C.

COMBAT A88

Molyslip Combat is a water displacing anti corrosive releasing and lubricating fluid. It is silicone free.
Lubrication and protection of all metal surfaces against rust and corrosion, driving out water and providing a protective film, penetrating, releasing and cleaning corroded and rusted parts.
Operating temperature from - 50° C to +200° C.

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LQG

It is an all purpose lubricant consisting of a colloidal suspension of molybdenum disulphide in a fluid which combines the advantages of solid grease with those of lubricating oil. It is sufficiently fluid to be sprayed but will not flow or drain away like an oil. It sprays on as an oil then sets as a grease.
Operating temperature from -35°C to 90°C

Note

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Gaskets

FLAT FLANGE ASA 150					
DN	D	d	N° Holes	Ø	Pitch
1/2	88,9	22,3	4	15,9	60,3
3/4	98,4	27,4	4	15,9	69,8
1	107,9	34,5	4	15,9	79,4
1 1/4	117,5	43,2	4	15,9	88,9
1 1/2	127,0	49,5	4	15,9	98,4
2	152,4	62,0	4	19,0	120,6
2 1/2	177,8	74,7	4	19,0	139,7
3	190,5	90,7	4	19,0	152,4
3 1/2	215,9	103,4	8	19,0	177,8
4	228,6	116,1	8	19,0	190,5
5	254,0	143,8	8	22,2	215,9
6	279,4	170,7	8	22,2	241,3
8	342,9	221,5	8	22,2	298,4
10	406,4	276,3	12	25,4	361,9
12	482,6	327,1	12	25,4	431,8
14	533,4	359,1	12	28,6	476,2
16	596,9	410,5	16	28,6	539,7
18	635,0	461,8	16	31,7	577,8
20	698,5	513,1	20	31,7	635,0
22	749,3	564,4	20	34,9	692,1
24	812,8	615,9	20	34,9	749,3
26	869,9	666,7	24	34,9	806,4
30	984,2	768,3	28	34,9	914,4
34	1111,2	869,9	32	41,3	1028,7
36	1168,4	920,7	32	41,3	1085,8
42	1346,2	1073,1	36	41,3	1257,3

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FLAT FLANGE ASA 300					
DN	**D**	**d**	**N° Holes**	**Ø**	**Pitch**
1/2	95,2	22,3	4	15,9	66,7
3/4	117,5	27,7	4	19,0	82,5
1	123,8	34,5	4	19,0	88,9
1 1/4	133,3	43,2	4	19,0	98,4
1 1/2	155,6	49,5	4	22,2	114,3
2	165,1	62,0	8	19,0	127,0
2 1/2	190,5	74,7	8	22,2	149,2
3	209,5	90,7	8	22,2	168,3
3 1/2	228,6	103,4	8	22,2	184,1
4	254,0	116,1	8	22,2	200,0
5	279,4	143,8	8	22,2	234,9
6	317,5	170,7	12	22,2	269,9
8	381,0	221,5	12	25,4	330,2
10	444,5	276,3	16	28,6	387,3
12	520,7	327,1	16	31,7	450,8
14	584,2	359,1	20	31,7	514,3
16	647,7	410,5	20	34,9	571,5
18	711,2	461,8	24	34,9	628,6
20	774,7	513,1	24	34,9	685,8
22	838,2	564,4	24	41,3	742,.9
24	914,4	615,9	24	41,3	812,8
26	971,5	666,7	28	44,4	876,3
30	1092,2	768,3	28	47,6	996,9
34	1206,5	868,9	28	50,8	1104,9
36	1270	920,7	32	54,0	1168,4
42	1447,8	1073,1	36	54,0	1339,8

FLAT FLANGE PN 6					
DN	D	d	N° Holes	Ø	Pitch
15	80	22	4	12	55
20	90	28	4	12	65
25	100	34	4	12	75
32	120	43	4	14	90
40	130	49	4	14	100
50	140	62	4	14	110
65	160	77	4	14	130
80	190	90	4	18	150
100	210	116	4	18	170
125	240	141	8	18	200
150	265	170	8	18	225
175	295	196	8	18	255
200	320	221	8	18	280
250	375	275	12	18	335
300	440	326	12	22	395
350	490	358	12	22	445
400	540	409	16	22	495
450	595	460	16	22	550
500	645	510	20	22	600
600	755	612	20	25	705
700	860	716	24	25	810
800	975	818	24	29	920
900	1075	920	24	29	1020
1000	1175	1020	28	29	1120

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FLAT FLANGE PN 10					
DN	D	d	N° Holes	Ø	Pitch
15	95	22	4	14	65
20	105	28	4	14	75
25	115	34	4	14	85
32	140	43	4	18	100
40	150	49	4	18	110
50	165	62	4	18	125
65	185	77	4	18	145
80	200	90	4	18	160
100	220	116	8	18	180
125	250	141	8	18	210
150	285	170	8	22	240
175	315	196	8	22	270
200	340	221	8	22	295
250	395	275	12	22	350
300	445	326	12	22	400
350	505	358	16	22	460
400	565	409	16	25	515
450	615	460	20	25	565
500	670	510	20	25	620
600	780	612	20	30	725
700	895	716	24	30	840
800	1015	818	24	33	950
900	1115	920	28	33	1050
1000	1230	1020	28	36	1160

FLAT FLANGE PN 16					
DN	**D**	**d**	**N° Holes**	**Ø**	**Pitch**
15	95	22	4	14	65
20	105	28	4	14	75
25	115	34	4	14	85
32	140	43	4	18	100
40	150	49	4	18	110
50	165	62	4	18	125
65	185	77	4	18	145
80	200	90	8	18	160
100	220	116	8	18	180
125	250	141	8	18	210
150	285	170	8	22	240
175	315	196	8	22	270
200	340	221	12	22	295
250	405	275	12	25	355
300	460	326	12	25	410
350	520	358	16	25	470
400	580	409	16	30	525
450	640	460	20	30	585
500	715	510	20	33	650
600	840	612	20	36	770
700	910	716	24	36	840
800	1025	818	24	39	950
900	1125	920	28	39	1050
1000	1255	1020	28	42	1170

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FLEXOID®
GASKET PAPER

GENERALITY

Plasticised gelatine impregnated material, cellulose based.

APPLICATIONS

Limited uses in industrial markets because of relatively low heat and chemical resistance compared with non-asbestos materials. Suitable for petrol, oil and water at low cost, Flexoid is used extensively by lthe major manufacturers for Carburettor; Fuel Pump; Front Plate; Oil Pump; Oil Filter; Side Cover; Timing Cover; Thermostat; Water Pump.

Features	*Method*	*Value*	*U.M.*
Density		0,85	g/cm^3
Compressibility	ASTM F36J	25 ÷ 40	%
Recovery		> 40	
Tensile Strength	ASTM F152	13,79	MPa
Thickness Increase Oil ASTM 3 22h @ 30°C	ASTM F146	5	%
Thickness Increase FUEL B 22h @ 30°C		5	
Thickness Increase WATER 22h @ 30°C		30	
Service Temperature *		120	°C
Service Pressure *		10	Bar

Commercial Size: Roll H 1000 mm

Thickness from 0,2 to 3,0 mm

* The maximum allowed Temperature and Pressure are not to be operated simultaneously. They depend on a variety of factors such as thickness, state of the joints, dimensions, tightening, thermal or mechanical shock. These values should only be regarded as guideline for the proper gasket assembly.

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References

ASTM F 104-83 F326128 E 21 M6, D1170-62T, P3313B, MIL G 12803 A, MIL G 12803B, FIAT 9.14631/1-3A 1-3B

BELDAM® PILOTSEAL 178

GENERALITY

Beldam Pilotseal 178 is a jointing material consisting of a high quality compressed fibre sheet material manufactured from a blend of special heat resistant fibres with a elastomeric binder. The sheet material has printed 25mm squares to assist when cutting and making gaskets. The material complies with the test requirements for BS7531 Grade Y.

APPLICATIONS

Suitable for use with oils, solvents, gases, water, steam, alkalis & dilute acids.

Features		Method	Value	Unit
Temperature Range *			-40 / +400	°C
Pressure Range *	General		10,4	MPa
	Steam		1,5	
Tensile Strength		ASTM F152	14	
Density			1,8	g/cm³
Residual Stress		BS7531	23	MPa
Compressibility		ASTM F36J	8	%
Recovery			62	
Thickness Increase	OIL 1 5h @ 150°C	ASTM	3	%
	OIL 3 5h @ 150°C		5	
	FUEL A 5h @ 20°C		3	
	FUEL B 5h @ 20°C		3	
Free Chloride Content			<100	ppm
Gas Permeability		BS7531	<0,01	ml/min

Sheet Size mm 1520x1520 tolerance +/- 50 mm

Thickness from 0,5 to 3,0 mm tolerance +/- 10%

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BELDAM® PILOTSEAL 170 REINFORCED

GENERALITY

Beldam Crossley Pilotseal 170 is a non-asbestos good quality compressed jointing manufactured from heat resistant synthetic fibre and polymer and reinforced with a fine steel wire mesh that provides the higher strength needed for severe operating conditions such as vibration and fluctuating temperatures.

APPLICATIONS

This jointing is completely asbestos free and is recommended for sealing against steam, water, oils, gases, dilute acids and alkalis. It is particularly suitable for applications involving vibration, fluctuating temperatures and narrow flange width gaskets.

Features	*Method*	*Value*	*UNIT*
Temperature Range *		400	°C
Pressure Range *		12,4	MPa
Tensile Strength	ASTM F152	10,3	
Density		1,95	g/cm^3
Stress Relaxation	BS7531	28	MPa
Compressibility	ASTM F36J	10	%
Recovery		60	
Free Chloride Content		<100	ppm

Sheet Size mm 1520x1520 tolerance +/- 50 mm

Thickness from 0,5 to 3,0 mm tolerance +/- 10%

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BENDERITE® AF200

GENERALITY

Benderite® AF200 is suitable for non-demanding applications in particular the water supply industry. It has been designed with good mechanical and sealing properties.

APPLICATIONS

General use in the presence of air and water, including drinking water, alcohol, diesel, mineral or glycol-based hydraulic oil. Not suitable for organophosphate based oils.

Features		Method	Value	Unit
Density		DIN 28090-2	1,8	g/cm³
Compressibility		ASTM F36J	9	%
Recovery			60	
Tensile Strength		ASTM F152	8	MPa
Stress Resistance	175°C (16 h, 50 MPa)	DIN 52913	20	
	300°C (16 h, 50 MPa)		/	
Specific Leak Rate		DIN 3535-6	0,04	mg/(s·m)
Specific Leak Rate		ASTM F146	10	%
Thickness Increase in oil IRM 903 5h @ 150°C			10	
Thickness Increase in FUEL B 5h @ 23°C		DIN 28090	/	%
Compression Modulus @ room temperature			/	
Compression Modulus @ 100°C			/	
Creep Relaxation @ room temperature			/	
Max * operating conditions	Peak Temperature		180	°C
	Continuous Temperature		150	
	With Steam		120	
Pressure *			40	Bar

Sheet Size mm 1520x1520 tolerance +/- 50 mm

Thickness from 0,5 to 3,0 mm tolerance +/- 10%

* The maximum allowed Temperature and Pressure are not to be operated simultaneously. They depend on a variety of factors such as thickness, state of the joints, dimensions, tightening, thermal or mechanical shock. These values should only be regarded as guideline for the proper gasket assembly.

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References

For further details please contact our Technical Department

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BENDERITE® AF300

GENERALITY

Benderite® AF300 has good thermal and chemical resistance, which makes it appropriate for use in a wide range of applications. It is well suited for use with potable water supply and shipbuilding.

APPLICATIONS

General purposes, water supply, gas supply, food industry, automotive, shipbuilding.

Features		Method	Value	Unit
Density		DIN 28090-2	1,8	g/cm³
Compressibility		ASTM F36J	9	%
Recovery			55	
Tensile Strength		ASTM F152	11	MPa
Stress Resistance	175°C (16 h, 50 MPa)	DIN 52913	25	
	300°C (16 h, 50 MPa)		/	
Specific Leak Rate		DIN 3535-6	0,07	mg/(s·m)
Thickness Increase in oil IRM 903 5h @ 150°C		ASTM F146	8	%
Thickness Increase in FUEL B 5h @ 23°C			10	
Compression Modulus @ room temperature		DIN 28090	8,5	%
Compression Modulus @ 100°C			2,5	
Creep Relaxation @ room temperature			5,1	
Creep Relaxation @ 100°C			1,2	
Max * operating conditions	Peak Temperature		280	°C
	Continuous Temperature		220	
	With Steam		180	
Pressure *			80	Bar

Sheet Size mm 1520x1520 tolerance +/- 50 mm

Thickness from 0,5 to 3,0 mm tolerance +/- 10%

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References

DIN-DVGW DIN 3535-6, DVGW KTW, DVGW W270, TA-Luft (VDI 2440), WRAS, Germanicher Lloyd, EC 1935/2004.

BENDERITE® AF300 LIGHT BLUE

GENERALITY

Benderite® AF300 BLU combines very good thermal, chemical, and mechanical properties that makes it a general-purpose gasket material. It is well designed for gas and potable water supplies.

APPLICATIONS

General purposes, water supply, potable water supply, gas supply, petrochemical industry, food industry, automotive, shipbuilding, refrigeration and cooling, heating systems, compressors.

Features		Method	Value	Unit
Density		DIN 28090-2	1,7	g/cm³
Compressibility		ASTM F36J	11	%
Recovery			60	
Tensile Strength		ASTM F152	10	MPa
Stress Resistance	175°C (16 h, 50 MPa)	DIN 52913	27	
	300°C (16 h, 50 MPa)		23	
Specific Leak Rate		DIN 3535-6	0,05	mg/(s·m)
Thickness Increase in oil IRM 903 5h @ 150°C		ASTM F146	2	%
Thickness Increase in FUEL B 5h @ 23°C			5	
Compression Modulus @ room temperature		DIN 28090	9,5	%
Compression Modulus @ 100°C			16,1	
Creep Relaxation @ room temperature			4,7	
Creep Relaxation @ 100°C			0,8	
Max * operating conditions	Peak Temperature		350	°C
	Continuous Temperature		250	
	With Steam		200	
Pressure *			100	Bar

Sheet Size mm 1520x1520 tolerance +/- 50 mm

Thickness from 0,5 to 3,0 mm tolerance +/- 10%

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References

DIN-DVGW DIN 3535-6, SVGW DIN 3535-6, DVGW VP401, DVGW KTW, DVGW W270, TA-Luft (VDI 2440), BAM (Oxygen) WRAS, Germanischer Lloyd, ABS, AGA 8140 G (Class III), EC 1935/2004

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BENDERITE® AF400

GENERALITY

Benderite® AF400 is specifically manufactured for heating systems that utilise steam or mineral oils, however it is also suitable for other applications. It has very good thermal and chemical resistance.

APPLICATIONS

General purposes, water supply, potable water supply, steam supply, gas supply, food industry, heating systems, shipbuilding.

Features		Method	Value	Unit
Density		DIN 28090-2	1,8	g/cm³
Compressibility		ASTM F36J	7	%
Recovery			55	
Tensile Strength		ASTM F152	7	MPa
Stress Resistance	175°C (16 h, 50 MPa)	DIN 52913	35	
	300°C (16 h, 50 MPa)		30	
Specific Leak Rate		DIN 3535-6	0,06	mg/(s·m)
Thickness Increase in oil IRM 903 5h @ 150°C		ASTM F146	8	%
Thickness Increase in FUEL B 5h @ 23°C			10	
Compression Modulus @ room temperature		DIN 28090	7,6	%
Compression Modulus @ 100°C			11,4	
Creep Relaxation @ room temperature			3,2	
Creep Relaxation @ 100°C			0,8	
Max * operating conditions	Peak Temperature		350	°C
	Continuous Temperature		270	
	With Steam		230	
Pressure *			100	Bar

Sheet Size mm 1520x1520 tolerance +/- 50 mm

Thickness from 0,5 to 3,0 mm tolerance +/- 10%

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References

DIN-DVGW DIN 3535-6, SVGW DIN 3536-6, DVGW VP401, DVGW KTW, DWGW W270, BAM (Oxygen), EC 1935/2004

BENDERITE® AF400 REINFORCED

GENERALITY

Benderite® AF400 Reinforced is specifically manufactured for heating systems that utilise steam or mineral oils, however it is also suitable for other applications. It has very good thermal and chemical resistance.

APPLICATIONS

General purposes, water supply, potable water supply, steam supply, gas supply, food industry, heating systems, shipbuilding.

Features		Method	Value	Unit
Density		DIN 28090-2	1,7	g/cm³
Compressibility		ASTM F36J	15	%
Recovery			40	
Tensile Strength		ASTM F152	7	MPa
Stress Resistance	175°C (16 h, 50 MPa)	DIN 52913	35	
	300°C (16 h, 50 MPa)		30	
Specific Leak Rate		DIN 3535-6	0,06	mg/(s·m)
Thickness Increase in oil IRM 903 5h @ 150°C		ASTM F146	3	%
Thickness Increase in FUEL B 5h @ 23°C			14	
Compression Modulus @ room temperature		DIN 28090	7,6	%
Compression Modulus @ 100°C			11,4	
Creep Relaxation @ room temperature			3,2	
Creep Relaxation @ 100°C			0,8	
Max * operating conditions	Peak Temperature		350	°C
	Continuous Temperature		270	
	With Steam		230	
Pressure *			100	Bar

Sheet Size mm 1520x1520 tolerance +/- 50 mm

Thickness from 0,5 to 3,0 mm tolerance +/- 10%

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References

DIN-DVGW DIN 3535-6, SVGW DIN 3536-6, DVGW VP401, DVGW KTW, DWGW W270, BAM (Oxygen), EC 1935/2004

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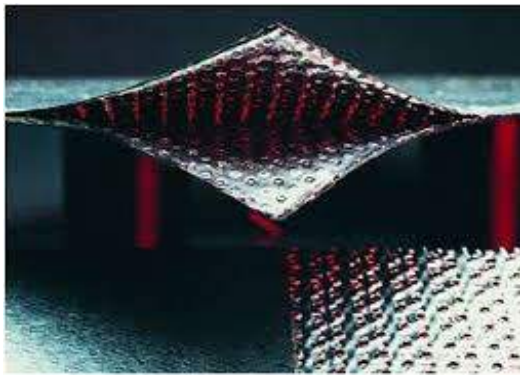
BENDERITE® AF500 REINFORCED



GENERALITY

BENDERITE® AF 500 Reinforced is a sheet of pure expanded graphite treated with corrosion inhibitor and reinforced with a tanged stainless steel core.

APPLICATIONS

This jointing is recommended for applications in which a combination of high sealing stress and greater blowout resistance is required. Suitable for sealing against steam, gas and most chemicals, except oxidising agents.

Features		Method	Value	Unit
Density		DIN 28090-2	1,1	g/cm^3
Compressibility		ASTM F36J	35	%
Recovery			15	
Stress Resistance	300°C (16 h, 50 MPa)	DIN 52913	49	N/mm^2
Compression modulus @ room temperature		DIN 28090	250	
Compression modulus @ 300°C			160	
Temperature	air or oxidising agents		400	°C
	inert fluid or reducing agents		530	
	minimum working temperature		- 240	
Pressure *			150	Bar

Sheet Size mm 1000x1000 tolerance +/- 50 mm

Thickness from 1 to 3 mm tolerance +/- 10%

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BENDERGRAPH®

GENERALITY

Bendergraph® is a special jointing made with graphithe and special polymer coating both sides. This structure ensures high flexibility, stability and excellent resistance, maintaining the ease of cutting.

APPLICATIONS

Bendergraph® is suitable to be used with water, exhaust gases, steam, oils, solvents, petroleum based products, chemicals and cryogenic applications. Also available with wire mesh reinforcement.

	Method	***Bendergraph***	***Bendergraph reinforced***	***U.M.***
Density		1,15	1,6	g/cm^3
Compressibility	EN 13555	40	25	%
Recovery		≥33	≥40	
Tensile Strength	ASTM F152	≥25	≥63	MPa
Gas Permeability	DIN 3535-4	0,003	>1,0	ml/min
Thickness Increase in Fuel	ASTM B	3,4	7,0	%
Thickness Increase in Oil	ASTM Oil 3	2	6,4	
Creep Relaxation		<8	<10	
Max Temperature / Peak *		450 / 650		°C
Max Continuos Pressure *		100	150	bar

Sheet Size mm 1520x1520 tolerance +/- 50 mm

Thickness from 0,5 to 3,0 mm tolerance +/- 10%

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BENDERITE® AF850 REINFORCED

GENERALITY

Benderite®AF850 is a special jointing made from flexible mica, reinforced with stainless steel.

APPLICATIONS

Benderite®AF850 is expressely designed to be used in presence of very high temperatures.

	Method	***Value***	***U.M.***
Density	DIN 28090-2	1,65 / 1,95	g/cm^3
Compressibility	DIN 3535-6	> 16	%
Recovery		> 3	
Creep Relaxation	DIN 3535-6	<12	
Leakage		<0,1	$mg*s^{-1}*m^{-1}$
Tensile Strength	DIN	35	N/mm^2
Temperature / Peak *		850 / 900	°C
Pressure *		60	bar

Sheet Size mm 1000x1000 tolerance +/- 50 mm

Thickness from 1 to 3,0 mm tolerance +/- 10%

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BENDERITE® MB TISS

GENERALITY

Benderite®MB TISS is a special jointing made of Bio-soluble ceramic fibers, compressed between fiberglass “E” type.
This product has no risks related to inhalation as it is made from fibers that have a reduced biopersistence time in lung tissue. Considered “not carcinogenic” as defined in Note Q of Directive 97/69 / EC relating to the classification of mineral fibers. When exposed to the flame will not burn or emit toxic fumes.

APPLICATIONS

Benderite® MB TISS ensure the best resistance in case of thermal shock. Thanks to it’s softness, it can easily fit the irregular surfaces of the flanges, also in presence of low tightening torque. Recommended to be used for the manufacturing of gas exhaust gaskets for marine engine.

	Method	***Value***	***Unit***
Density	DIN 3754	0,4	g/cm^3
Compressibility	ASTM F 36	> 50	%
Recovery		> 25	
Combustibility	Class 0 (Incombustible)		
Temperature / Peak *		600/ 1100	°C
Pressure *		5	bar

Sheet Size mm 122x2000 tolerance +/- 50 mm

Thickness 6 mm tolerance +/- 10%

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BENDERITE® ECO-VERDE

GENERALITY

Benderite® Eco-Verde is a jointing made from synthetic fibres, bound together with nitrile elastomer.

APPLICATIONS

Suitable for general application in the presence of medium temperature and pressure.

Features		Method	Value	Unit
Density		DIN 28090-2	1,8	g/cm³
Compressibility		ASTM F36J	9	%
Recovery			54	
Tensile Strength		ASTM F152	11	MPa
Stress Resistance	175°C (16 h, 50 MPa)	DIN 52913	25	
	300°C (16 h, 50 MPa)		/	
Specific Leak Rate		DIN 3535-6	0,07	mg/(s·m)
Thickness Increase in oil IRM 903 5h @ 150°C		ASTM F146	3	%
Thickness Increase in FUEL B 5h @ 23°C			11	
Compression Modulus @ room temperature		DIN 28090	8,5	%
Compression Modulus @ 100°C			2,5	
Creep Relaxation @ room temperature			5,1	
Creep Relaxation @ 100°C			1,2	
Max * operating conditions			180	°C
Pressure *			70	Bar

Sheet Size mm 1520x1520 tolerance +/- 50 mm

Thickness from 0,5 to 3,0 mm tolerance +/- 10%

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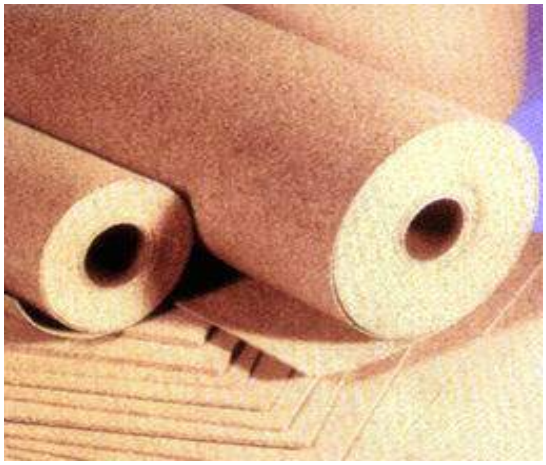
RUBBERCORK RCN

GENERALITY



Rubbercork RCN is a good quality material realized with cork grains and NBR rubber binders.

APPLICATIONS

Rubbercork RCN is suitable for many technical applications with medium clamping pressure. In particular it is suitable for sealing gaskets and other functions in the motor field, antifreeze, water, air etc. Featuring a high compressibility, high elastic recovery. It offers good resistance to oils, greases, antifreeze and air.

FEATURES

PROPERTIES

Density	0,55 - 0,70
Hardness	60 - 75 Sh A
Compressibility	30 - 45 % a 400 psi
Recovery	> 80 %
Tensile Strenght	> 1,7 MPa

***THICKNESS INCREASE AFTER FLUID IMMERSION*:**

Oil ASTM 1 (70 h @ 100°C)	-5% +10%
Oil ASTM 2 (70 h @ 100°C)	-2% +15%
Fuel ASTM A (22 h @ a.t.)	-2% +10%

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GUARNIFLON

GUARNIFLON is made from 100% pure, expanded, virgin PTFE. The whole production process is subject to strict quality control. Available in tapes and slabs.

FDA approved for use in the food machineries, it is chemically inert and physiologically harmless.

APPLICATIONS

Because of it's excellent thermal and chemical resistance, **Guarniflon** can be used in a wide variety of static applications in nearly all kinds of industry. The exceptional malleability of expanded PTFE can compensate for out-of-parallel and/or damaged sealing surfaces and allows use with stress sensitive connections and applications where only a limited flange load is available, e.g. plastic flanges, glass flanges, etc. Typical applications are the sealing of flanges, pump housings, compressors, hand- and manholes, air ducts, compensators, heat exchangers and many more.

FEATURES

Chemically inert with most of the chemical products.
Thanks to the adhesive strip the installation is fast and precise, with considerable time saving and reduced maintenance costs.
It fits the irregularities of the flanges preventing surface damages.

Density	Density 0,65 g/cm^3
Working Temperature	from -240°C to +260°C
Operating pressure	Vacuum up to 200 bar
pH range	0 / 14

PILOT LIDPACK 3801/L

GENERALITY

In order to prevent water pollution is being paid more and more attention to the safety of the sea transport of dangerous goods such as chemicals, oils and solvents. To meet this need the Beldam ‘s Crossley, a leading worldwide designer and manufacturer of sealing elements, has created a special seal for tanks and reservoirs.

FEATURES

The **Pilot Lidpack 3801/L** is a special development built on the 3800 version. It conists of a hollow elastomeric core, spirally wrapped with layers of PTFE tape. On the outside a special cover of unsintered PTFE TAPE gives complete impermeability to liquids and chemicals, ensuring maximum strength and abrasion resistance.
The structure of the **Pilot Lidpack 3801/L** has characteristic of elasticity and adaptability such as to ensure a perfect seal even with an irregular profile of the seat in which the gasket is inserted. **Pilot Lidpack 3801/L has been expressly designed for light oils and petrochemicals**, including Virgin Naphta, but also suitable for heavy oils. The maximum operating temperature is 100 °C at 1 Bar. pH range 2-13.

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INSTALLATION INSTRUCTIONS

It is important that the seat of the lid in which it will be applied to the gasket previously degreased and cleaned of rust. Grease the groove with silicone grease can facilitate the insertion of the gasket.
Trim the end of the gasket with a sharp knife so that the section is perfectly square, and then measure the circumference of the groove superimposing **Pilot Lidpack 3801/L**. At the measured length add 2% so that the ring, once spliced, is slightly compressed.

HOT JUNCTION

Press the two ends of the seal on a plate heated (300-350 ° c) until slightly melt the inner synthetic fabrics. At this point press strongly the two surfaces together and allow to cool. Ensure the success of the welding by flexing the ring just formed.

COLD JUNCTION

As an alternative to heating plate, the junction can be carried out by bonding with Loctite adhesive for porous materials (or other similar adhesives).

Once aligned the two ends pressed strongly the two surfaces together and let them dry. Ensure the success of the welding by flexing the ring just formed.

Now apply the silicone grease on the junction and cover with PTFE tape, making sure that it properly adheres to the junction itself.

The ring can be positioned. Since it has been manufactured with 2% oversize, it must be forced to enter the groove.

The end result, is a ring of **Pilot Lidpack 3801/L** perfectly inserted inside the seat cover. Being oversized, the gasket must be compressed to be fitted inside the lid seat, ensuring a perfect seal.

FEP ENCAPSULATED O-RINGS

GENERALITY & APPLICATIONS

Special OR realized with normal elastic compounds such as NBR, SILICONE, VITON, EPDM, etc., covered by a film of FEP (FluoroEtilenePropilene), a special polymer that gives a better resistance to chemicals.
Essential in all applications where a higher resistance to chemical agents is required. They are widely used in the Chemical, Petrochemical and Food industries.

FEATURES

The coverage FEP gives the O-rings excellent resistance to aggressive chemicals, with the exception of molten alkali metals, fluorine and some halogenated compounds, heat resistance, breakage, as well as a low coefficient of friction.

ELASTOMER	***CHARACTERISTICS***
SILICONE	Resistant to deformation and heat (-51° + 204°C)
VITON	Resistant to chemicals and heat (-17° + 204°C)
EPDM	Low gas permeability
	Working temperature from -46° to +149°C

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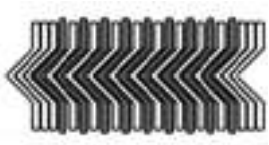
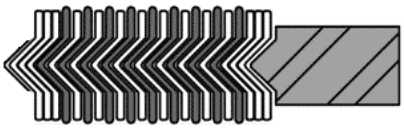
SPIRAL WOUND GASKETS

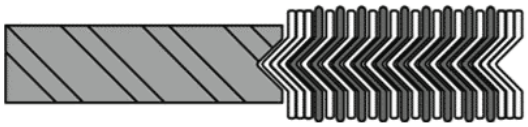
Spiral wound gaskets are special semi-metallic gaskets of great resilience, very suitable for applications featuring heavy operating conditions. Spiral wound gaskets are manufactured by spirally winding a V-shaped metal strip and a strip of non metallic filler material (graphite, PTFE etc). The metal strip holds the filler, providing the gasket with mechanical resistance and resilience.
Spiral wound gaskets should always be in contact with the flange and should not protrude into the pipe or from the flange. They can be reinforced by an outer centering ring and/or inner retaining ring. The outer centering ring controls the compression and holds the gaskets centrally within the bolt circle. The inner retaining ring increases the axial rigidity and resilience of the gasket.



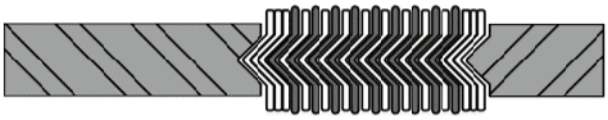
R Type — Without guide or inner ring



IR Type — With inner ring



OR Type — With outer guide ring



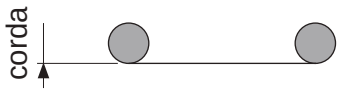
IOR Type — With guide and inner ring

Standard version round shaped according to UNI or ASA tables. Different styles upon request.

APPLICATIONS AND ADVANTAGES

Used for sealing flange joints, manholes, boilers, heat exchangers, pumps, compressors and valves in petrochemical and shipbuilding industries, food processing, power industries. They are ideal for steam, oil, liquids, gases, acids, alkalines, and solvents.

Typical advantages are: Sealing under heavy operating conditions; Strong stress compensation, stable and reliable sealing performance even under frequent pressure fluctuation condition; Easy installation.



Rif. USA	Rif. INGLESE	d	Corda
		0,74	1,78
2-4	2007	1,78	1,78
2-5	2010	1,78	1,78
2-6	2012 101	2,90	1,78
2-7	2015 102	3,68	1,78
2-8	2018 103	4,48	1,78
2-9	2021 104	5,28	1,78
2-10	2025 105	6,07	1,78
5-052	106	6,75	1,78
2-11	2031 107	7,66	1,78
5-612	108	8,73	1,78
2-12	2037 110	9,25	1,78
2-13	2043	10,82	1,78
5-613	114	11,11	1,78
2-14	2050	12,42	1,78
2-15	2056	14,00	1,78
2-16	2062	15,60	1,78
2-17	2068	17,16	1,78
2-18	2075	18,77	1,78
2-19	2081	20,35	1,78
2-20	2087	21,95	1,78
2-21	2093	23,53	1,78
2-22	2100	25,12	1,78
2-23	2106	26,70	1,78
2-24	2112	28,30	1,78
2-25	2118	29,87	1,78
2-26	2125	31,47	1,78
2-27	2131	33,05	1,78
2-28	2137	34,65	1,78
2-29	2150	37,82	1,78
2-30	2162	41,00	1,78
2-31	2175	44,17	1,78
2-32	2187	47,35	1,78
2-33	2200	50,52	1,78
2-34	2212	53,67	1,78
2-35	2225	56,87	1,78
2-36	2237	60,04	1,78
2-37	2250	63,22	1,78
2-38	2262	66,40	1,78
2-39	2275	69,57	1,78
2,40	2287	72,76	1,78
2-41	2300	75,92	1,78
2-42	2325	82,28	1,78
2-43	2350	88,62	1,78
2-44	2375	94,97	1,78
2-45	2400	101,34	1,78
2-46	2425	107,70	1,78
2-47	2450	114,00	1,78
2-48	2475	120,40	1,78
2-49	2500	126,76	1,78
2-50	2525	133,07	1,78
	2562	142,11	1,78
	2637	161,16	1,78
2-102		1,24	2,62
2-103		2,06	2,62
2-104		2,84	2,62
2-105		3,63	2,62
2-106		4,42	2,62
2-107	3021	5,23	2,62
2-108	3024	6,02	2,62
2-109	3030	7,60	2,62
	109	9,13	2,62
2-110	3037 111	9,19	2,62
5-614	112	9,92	2,62
2-111	3043 113	10,78	2,62
5-615	115	11,91	2,62
2-112	3050 116	12,37	2,62
5-616	117	13,10	2,62
2-113	3056 118	13,95	2,62
5-243	119	15,08	2,62
2-114	3062 120	15,54	2,62
5-617	121	15,88	2,62
2-115	3068 122	17,13	2,62

Rif. USA	Rif. INGLESE	d	Corda
5-256	123	17,89	2,62
2-116	3075 124	18,72	2,62
2-117	3081 127	20,29	2,62
	128	20,63	2,62
2-118	3087	21,89	2,62
	130	22,22	2,62
2-119	3093	23,47	2,62
	132	23,81	2,62
2-120	3100	25,07	2,62
2-121	3106	26,64	2,62
2-122	3112	28,25	2,62
2-123	3118	29,82	2,62
2-124	3125	31,42	2,62
2-125	3131	33,00	2,62
2-126	3137	34,59	2,62
2-127	3143	36,17	2,62
2-128	3150	37,77	2,62
2-129	3156	39,34	2,62
2-130	3162	40,95	2,62
2-131	3168	42,52	2,62
2-132	3175	44,12	2,62
2-133	3181	45,69	2,62
2-134	3187	47,29	2,62
2-135	3193	48,90	2,62
2-136	3200	50,47	2,62
2-137	3206	52,07	2,62
2-138	3212	53,65	2,62
2-139	3218	55,25	2,62
2-140	3225	56,82	2,62
2-141	3231	58,42	2,62
2-142	3237	60,00	2,62
2-143	3243	61,60	2,62
2-144	3250	63,17	2,62
2-145	3256	64,77	2,62
2-146	3262	66,63	2,62
2-147	3268	67,95	2,62
2-148	3275	69,52	2,62
2-149	3281	71,12	2,62
2-150	3287	72,69	2,62
2-151	3300	75,87	2,62
2-152	3325	82,22	2,62
2-153	3350	88,57	2,62
2-154	3375	94,93	2,62
2-155	3400	101,27	2,62
2-156	3425	107,63	2,62
2-157	3450	113,98	2,62
2-158	3475	120,33	2,62
2-159	3500	126,67	2,62
2-160	3525	133,00	2,62
2-161	3550	139,38	2,62
2-162	3575	145,72	2,62
2-163	3600	152,07	2,62
2-164	3625	158,41	2,62
2-165	3650	164,78	2,62
2-166	3675	171,13	2,62
2-167	3700	177,47	2,62
2-168	3725	183,83	2,62
2-169	3750	190,18	2,62
2-170	3775	196,53	2,62
2-171	3800	202,87	2,62
2-172	3825	209,23	2,62
2-173	3850	215,58	2,62
2-174	3875	221,93	2,62
2-175	3900	228,28	2,62
2-176	3925	234,63	2,62
2-177	3950	240,98	2,62
2-178	3975	247,33	2,62
2-201		4,34	3,53
2-202		5,94	3,53
2-203	4028	7,52	3,53
2-204	4036	9,12	3,53
2-205	4042	10,69	3,53
2-206	4050	12,29	3,53

Rif. USA	Rif. INGLESE	d	Corda
2-207	4055	13,87	3,53
2-208	4061	15,47	3,53
2-209	4067	17,04	3,53
2-210	4075 125	18,64	3,53
2-211	4081 126	20,22	3,53
2-212	4087 129	21,82	3,53
2-213	4093 131	23,40	3,53
2-214	4100 133	24,99	3,53
5-618	134	25,80	3,53
2-215	4106 135	26,58	3,53
2-216	4112 136	28,17	3,53
2-217	4118 137	29,75	3,53
2-218	4125 138	31,34	3,53
2-219	4131 139	32,92	3,53
2-220	4137 140	34,52	3,53
2-221	4143 141	36,10	3,53
2-222	4150 142	37,69	3,53
5-321	144	39,69	3,53
2-223	4162	40,87	3,53
	146	41,28	3,53
5-332	147	42,86	3,53
2-224	4175	44,04	3,53
	149	44,45	3,53
5-035	150	46,04	3,53
2-225	4187	47,22	3,53
	152	47,63	3,53
5-701	153	49,21	3,53
2-226	4200	50,40	3,53
	155	50,80	3,53
5-037	156	52,39	3,53
2-227	4212	53,57	3,53
	158	53,98	3,53
	159	55,56	3,53
2-228	4225	56,74	3,53
	161	57,15	3,53
5-702	162	58,74	3,53
2-229	4237	59,92	3,53
	164	60,33	3,53
5-039	165	61,90	3,53
2-230	4250	63,09	3,53
	167	63,50	3,53
5-703	168	65,10	3,53
2-231	4262	66,27	3,53
	170	66,67	3,53
5-361	171	68,26	3,53
2-232	4275	69,44	3,53
	173	69,85	3,53
5-704	174	71,44	3,53
2-233	4287	72,62	3,53
	176	73,02	3,53
5-705	177	74,60	3,53
2-234	4300	75,80	3,53
2-235	4312	78,97	3,53
2-236	4325	82,14	3,53
2-237	4337	85,32	3,53
2-238	4350	88,50	3,53
2-239	4362	91,67	3,53
2-240	4375	94,84	3,53
2-241	4387	98,02	3,53
2-242	4400	101,20	3,53
2-243	4412	104,37	3,53
2-244	4425	107,54	3,53
2-245	4437	110,72	3,53
2-246	4450	113,90	3,53
2-247	4462	117,07	3,53
2-248	4475	120,25	3,53
2-249	4487	123,42	3,53
2-250	4500	126,60	3,53
2-251	4512	129,77	3,53
2-252	4525	132,94	3,53
2-253	4537	136,12	3,53
2-254	4550	139,30	3,53
2-255	4562	142,47	3,53

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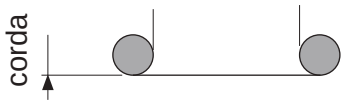

Rif. USA	Rif. INGLESE	d	Corda
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2-257	4587	148,82	3,53
2-258	4600	151,99	3,53
2-259	4625	158,35	3,53
2-260	4650	164,70	3,53
2-261	4675	171,05	3,53
2-262	4700	177,40	3,53
2-263	4725	183,75	3,53
2-264	4750	190,10	3,53
2-265	4775	196,44	3,53
2-266	4800	202,79	3,53
2-267	4825	209,14	3,53
2-268	4850	215,49	3,53
2-269	4875	221,84	3,53
2-270	4900	228,19	3,53
2-271	4925	234,54	3,53
2-272	4950	240,89	3,53
2-273	4975	247,24	3,53
2-274	41000	253,59	3,53
2-275	41050	266,30	3,53
2-276	41100	279,00	3,53
2-277	41150	291,70	3,53
2-278	41200	304,39	3,53
2-279	41300	329,80	3,53
2-280	41400	355,20	3,53
2-281	41500	380,60	3,53
2-282	41600	405,26	3,53
2-283	41700	430,66	3,53
2-284	41800	456,06	3,53
2-309		10,46	5,33
2-310		12,07	5,33
2-311		13,64	5,33
2-312		15,24	5,33
2-313		16,81	5,33
2-314		18,42	5,33
2-315		19,99	5,33
2-316		21,59	5,33
2-317		23,17	5,33
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2-322		31,12	5,33
2-323		32,69	5,33
2-324		34,29	5,33
2-325	6150 143	37,47	5,33
2-326	6162 145	40,65	5,33
2-327	6175 148	43,82	5,33
2-328	6187 151	47,00	5,33
2-329	6200 154	50,16	5,33
2-330	6212 157	53,34	5,33
2-331	6225 160	56,52	5,33
2-332	6237 163	59,70	5,33
2-333	6250 166	62,87	5,33
2-334	6262 169	66,04	5,33
2-335	6275 172	69,22	5,33
2-336	6287 175	72,40	5,33
	178	74,63	5,33
2-337	6300 179	75,57	5,33
2-338	6312 180	78,74	5,33
	181	79,77	5,33
2-339	6325 182	81,92	5,33
2-340	6337 183	85,09	5,33
2-341	6350 184	88,27	5,33
	185	89,69	5,33
3-342	6362 186	91,44	5,33
2-343	6375 187	94,62	5,33
2-344	6387 188	97,80	5,33
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2-345	6400 190	100,97	5,33
2-346	6412 191	104,14	5,33
2-347	6425 192	107,32	5,33
	193	109,54	5,33

Rif. USA	Rif. INGLESE	d	Corda
2-348	6437 194	110,49	5,33
2-349	6450 195	113,67	5,33
2-350		116,84	5,33
	199	117,48	5,33
2-351		120,02	5,33
	201	120,70	5,33
2-352		123,20	5,33
	203	123,80	5,33
2-353		126,37	5,33
	206	127,00	5,33
2-354		129,54	5,33
	208	130,18	5,33
2-355		132,72	5,33
	210	133,35	5,33
2-356		135,90	5,33
	213	136,53	5,33
2-357		139,07	5,33
	215	139,70	5,33
2-358		142,24	5,33
	217	142,88	5,33
2-359		145,42	5,33
	219	146,05	5,33
2-360		148,60	5,33
	221	149,23	5,33
2-361	6600	151,77	5,33
2-362	6625	158,12	5,33
2-363	6645	164,47	5,33
2-364	6670	170,82	5,33
2-365	6700	177,17	5,33
2-366	6720	183,52	5,33
2-367	6745	189,87	5,33
2-368	6775	196,22	5,33
2-369	6795	202,57	5,33
2-370	6820	208,92	5,33
2-371	6850	215,27	5,33
2-372	6870	221,62	5,33
2-373	6895	227,97	5,33
2-374	6920	234,32	5,33
2-375	6945	240,67	5,33
2-376	6975	247,02	5,33
2-377	6995	253,57	5,33
2-378	61050	266,07	5,33
2-379	61100	278,77	5,33
2-380	61150	291,47	5,33
2-381	61200	304,17	5,33
2-382	61300	329,57	5,33
2-383	61400	354,97	5,33
2-384	61500	380,37	5,33
2-385	61600	405,26	5,33
2-386	61700	430,66	5,33
2-387	61800	456,06	5,33
2-388	61900	481,46	5,33
2-389	62000	506,81	5,33
2-390	62100	532,20	5,33
2-391	62200	557,61	5,33
2-392	62300	582,68	5,33
2-393	62400	608,08	5,33
2-394	62500	633,48	5,33
2-395	62600	658,88	5,33
2-425	8450 196	113,67	6,99
	197	114,70	6,99
2-426	8462 198	116,84	6,99
2-427	8475 200	120,02	6,99
2-428	8487 202	123,20	6,99
	204	124,60	6,99
2-429	8500 205	126,37	6,99
2-430	8512 207	129,54	6,99
2-431	5252 209	132,72	6,99
	211	134,50	6,99
2-432	8537 212	135,90	6,99
2-433	8550 214	139,07	6,99
2-434	8562 216	142,24	6,99
2-435	8575 218	145,42	6,99

Rif. USA	Rif. INGLESE	d	Corda
2-436	8587 220	148,60	6,99
2-437	8600 222	151,77	6,99
	223	155,60	6,99
2-438	8625 224	158,12	6,99
	225	159,50	6,99
	226	161,90	6,99
2-439	8650 227	164,47	6,99
	228	166,70	6,99
	229	168,30	6,99
2-440	8675 230	170,82	6,99
	231	174,60	6,99
2-441	8700 232	177,17	6,99
	233	181,00	6,99
2-442	8725 234	183,52	6,99
	235	187,30	6,99
2-443	8750 236	189,87	6,99
	237	193,70	6,99
2-444	8775 238	196,22	6,99
	239	199,80	6,99
2-445	8800 240	202,57	6,99
	8825 241	208,92	6,99
2-446	8850 242	215,27	6,99
	8875 243	221,62	6,99
2-447	8900 244	227,67	6,99
	8925 245	234,32	6,99
2-448	8950 246	240,67	6,99
	8975 247	247,00	6,99
2-449	81000 248	253,57	6,99
	81025 249	259,70	6,99
2-450	81050 250	266,07	6,99
	81075 251	272,40	6,99
2-451	81100 252	278,77	6,99
	81125	253,00	6,99
2-452	81150 254	291,47	6,99
	81175 255	297,80	6,99
2-453	81200 256	304,17	6,99
2-454	81250 257	316,87	6,99
2-455	81300 258	329,57	6,99
2-456	81350 259	342,27	6,99
2-457	81400 260	354,97	6,99
2-458	81450 261	367,67	6,99
2-459	81500 262	380,37	6,99
2-460	81550 263	393,07	6,99
2-461	81600	405,26	6,99
2-462	81650	417,96	6,99
2-463	81700	430,66	6,99
2-464	81750	443,36	6,99
2-465	81800	456,06	6,99
2-466	81850	468,76	6,99
2-467	81900	481,46	6,99
2-468	81950	494,16	6,99
2-469	82000	506,86	6,99
2-470	82100	532,26	6,99
2-471	82200	557,66	6,99
2-472	82300	582,68	6,99
2-473	82400	608,08	6,99
2-474	82500	633,48	6,99
2-475	82600	658,88	6,99

Note

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Plastic Materials

POLYTETRAFLUOROETHYLENE PTFE

GENERALITY

PTFE is a polymer with very good physical and chemical characteristics. It is the most known and used among the engineering plastics. Excellent heat resistance and dielectric characteristics, no hygroscopicity, excellent resistance to ageing and low friction coefficient. PTFE is inert to virtually all chemical reactants and has a low heat transmission coefficient which makes it an insulating material. Available in sheets / round / sleeves.

PTFE is not particularly suitable for mechanical engineering. For these purposes it is added with various fillers such as fiber glass, carbon, graphite, in order to improve their mechanical characteristics.

FEATURES	UNIT	Method ASTM	VALUE
Specific Weight	Kg/dm^3	D792	2,2
Water absorption	% by weight	100%	0,005
Tensile strength	Kg/cm^2	D638	150-280
Compressive strength	Kg/cm^2	D659	44
Deformation strength	Kg/cm^2	D790	n.a.
Impact strength	Kg/cm^2	D256	3
Hardness Rockwell	Kg/cm^2	D1706	n.a.
Modulus of elasticity	Kg/cm^2	D638	n.a.
Melting point	°C		357
Coefficient of thermal expansion	x °C		$13x10^{-5}$
Operating temperature	°c		260
Surface resistivity	Ohms		n.a.
Electric strength	KV/mm		n.a.
Dielectric constant		D150	21

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POLYTETRAFLUOROETHYLENE / CARBON
PTFE + C

GENERALITY

Carbon is added to the PTFE in a percentage between 10 and 35 b.w., along with a small percentage of graphite. The carbon improves considerably, wear resistance and deformation under load while leaves practically unchanged the chemical resistance. It improves electrical properties.

The reported values are referred to 15% carbon reinforcement.

FEATURES	UNIT	Method ASTM	VALUE
Specific Weight	kg/dm^3	DIN 53479	2,1
Water absorption	% by weight	ASTM D 570	0,005
Tensile strength	N/mm^2	DIN 53455	15 - 20
Compressive strength	N/mm^2	D965	6,5 - 7,5
Deformation strength	Kg/cm^2	D790	n.a.
Impact strength	Kg/cm^2	D256	n.a.
Hardness	Shore D	ASTM D 2240	55 - 60
Melting point	°C	DIN 53736	326
Operating temperature	°C		-200 / +260
Mass resistance	ΩX cm	DIN 53482	1011
Dielectric strength	KV/mm	DIN 53481	48
Dielectric constant	ɛr	DIN 53483	2,1

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POLYTETRAFLUOROETHYLENE / GLASS FIBER
PTFE + GF

GENERALITY

PTFE is reinforced with glass fibres, the percentage may vary between 5 and 40 b.w. The glass fibre improves the wear properties and also the deformation under load. Glass itself, has a rather poor resistance against alkalis and is easily attacked by hydrofluoric acid. The coefficient of friction is slightly increased and for this reason, graphite or molybdenum disulfide are sometimes added to compensate this negative effect.

The reported values are referred to 15% glass fibers reinforcement.

FEATURES	UNIT	Method ASTM	VALUE
Specific Weight	kg/dm^3	DIN 53479	2,2
Water absorption	% by weight	ASTM D 570	0,005
Tensile strength	N/mm^2	DIN 53455	10 - 24
Compressive strength	N/mm^2	D965	6 - 7
Deformation strength	Kg/cm^2	D790	n.a.
Impact strength	Kg/cm^2	D256	n.a.
Hardness	Shore D	ASTM D 2240	60 - 65
Melting point	°C	DIN 53736	326
Operating temperature	°C		-200 / +260
Mass resistance	ΩX cm	DIN 53482	10^{16}
Dielectric strength	KV/mm	DIN 53481	48
Dielectric constant	ϵr	DIN 53483	2,1

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POLYTETRAFLUOROETHYLENE / BRONZE
PTFE + BR

GENERALITY

Bronze is added in percentage of 40 and 60 b.w. Bronze filled PTFE has excellent wear properties, low deformation under load and good thermal and electrical conductivity. The chemical resistance is poor, especially in acidic environment.

The reported values are referred to 60% bronze reinforcement.

FEATURES	UNIT	Method ASTM	VALUE
Specific Weight	kg/dm^3	DIN 53479	3,8 - 3,9
Water absorption	% by weight	ASTM D 570	0,005
Tensile strength	N/mm^2	DIN 53455	14 - 23
Compressive strength	N/mm^2	D965	10 - 11
Deformation strength	Kg/cm^2	D790	n.a.
Impact strength	Kg/cm^2	D256	n.a.
Hardness	Shore D	ASTM D 2240	65 - 70
Melting point	°C	DIN 53736	326
Operating temperature	°C		-200 / +260
Mass resistance	ΩX cm	DIN 53482	10^7 - 10^{10}
Dielectric strength	KV/mm	DIN 53481	48
Dielectric constant	ϵr	DIN 53483	2,1

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POLYAMIDE 6 PA6

GENERALITY

Polyamide 6 is a plastic material widely used in the field of mechanical construction for its characteristics of toughness, hardness, light weight, resistance to wear and to impact even at low temperatures. It has excellent dielectric properties and good chemical resistance organic and inorganic products and a good resistance to thermal aging. It has good machinability.

Available in stock in sheets, rods and, upon request, in sleeves. Versions added with molybdenum disulfide also available.

FEATURES	UNIT	Method ASTM	VALUE
Specific Weight	Kg/dm^3	D792	1,14
Water absorption	% by weight	100%	3,5
Tensile strength	Kg/cm^2	D638	450
Compressive strength	Kg/cm^2	D659	900
Deformation strength	Kg/cm^2	D790	960
Impact strength	Kg/cm^2	D256	n.a.
Hardness Rockwell	Kg/cm^2	D1706	87
Modulus of elasticity	Kg/cm^2	D638	25000
Melting point	°C		215
Coefficient of thermal expansion	x °C		$110x10^{-6}$
Operating temperature	°c		100
Surface resistivity	Ohms		10^{-9}
Electric strength	Ohms/cm	D257	10^{10}
Dielectric constant		D150	8 - 25

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POLYETHYLENE HD 300
PE HD 300

GENERALITY

A plastic material with low specific weight and virtually no water absorption. It has excellent resistance to chemicals and wear and abrasion resistance properties with good impact resistance even at low temperatures. The main application areas are general engineering industry, canning industry, chemical industry, electroplating, cryogenic, textile etc.

Slabs are available in stock, rods upon request.

FEATURES	UNIT	Method ASTM	VALUE
Specific gravity	g/cm^3	53 479	0,95
Molecular weight	Mil. g/mol		>0,25
Humidity absorption	% by weight		0,005
Tensile strength	N/mm^2	53 455	22
Breaking strength	N/mm^2	53 455	32
Elongation at break	%	53 455	> 800
3,5% bending stress	N/mm^2	53 452	19
Impact strength	Mj/mm^2	53 453	no fracture
Hardness	Shore D	53 505	60
Operating temperature	°C		-50 / +60
Melting point	°C		130
Thermal conductivity	W / mxk	52 612	0,43

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POLYETHYLENE HD 1000
GREEN PE HD 1000

GENERALITY

A plastic material with low specific weight and virtually no water absorption. It has excellent resistance to chemicals and wear and abrasion resistance properties with good impact resistance even at low temperatures. The main application areas are general engineering industry, canning industry, chemical industry, electroplating, cryogenic, textile etc.

Slabs are available in stock, rods upon request.

FEATURES	UNIT	Method ASTM	VALUE
Specific gravity	Kg/dm^3	53 479	0,93
Molecular weight	Mil. g/mol		4-8
Humidity absorption	% by weight		0,005
Tensile strength	N/mm^2	53 455	> 20
Breaking strength	N/mm^2	53 455	> 40
Elongation at break	%	53 455	> 350
3,5% bending stress	N/mm^2	53 452	20
Impact strength	Mj/mm^2	53 453	no fracture
Hardness	Shore D	53 505	63
Operating temperature	°C		-50 / +70
Melting point	°C		135
Thermal conductivity	W / mxk	52 612	0,41

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POLYPROPYLENE PP

GENERALITY

This thermoplastic is part of the group of polyolefins and has excellent physical characteristics, thermal and chemical properties, while the mechanical values are lower than those of polyamides. It has high surface hardness and abrasion resistance. The impact resistance is excellent, except that at low temperatures. The chemical resistance is outstanding; It is attached by only a few highly oxidizing reagents, and for this reason is widely used in chemical industries and galvanoplastiche. The excellent dielectric properties make it very suitable for use even in the electronics, radio and television. It has the lowest specific weight among plastic materials; almost no absorption of moisture and thus good dimensional stability.

Available upon request.

FEATURES	UNIT	Method ASTM	VALUE
Specific Weight	Kg/dm^3	D792	0,9
Water absorption	% by weight	100%	0,2
Tensile strength	Kg/cm^2	D638	300
Compressive strength	Kg/cm^2	D659	1100
Deformation strength	Kg/cm^2	D790	430
Impact strength	Kg/cm^2	D256	10 - 15
Hardness Rockwell	Kg/cm^2	D1706	80
Modulus of elasticity	Kg/cm^2	D638	13000
Melting point	°C		164
Coefficient of thermal expansion	x °C		$110x10^{-6}$
Operating temperature	°c		110
Surface resistivity	Ohms		10^{13}
Electric strength	Ohms/cm	D257	10^{16}
Dielectric constant		D150	2,3

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POLYVINYLCHLORIDE PVC

GENERALITY

It' a very hard plastic material, has excellent dielectric properties, good mechanical strength values and high resistance to chemicals, also in the presence of oxidants. Should not be used with temperature higher than 60°C. It can be welded or glued. Particularly used in the chemical and electroplating, for reaction tanks, bodies for filters, fans, in the mechanical, electrical, building and furnishings.

Available in slabs and rods.

FEATURES	UNIT	Method ASTM	VALUE
Specific Weight	Kg/dm^3	D792	1,45
Water absorption	% by weight	100%	0,05
Tensile strength	Kg/cm^2	D638	190
Compressive strength	Kg/cm^2	D659	750
Deformation strength	Kg/cm^2	D790	900
Impact strength	Kg/cm^2	D256	7
Hardness Rockwell	Kg/cm^2	D1706	110
Modulus of elasticity	Kg/cm^2	D638	35×10^{13}
Melting point	°C		86 - 90
Coefficient of thermal expansion	x °C		$66x10^{-6}$
Operating temperature	°c		70
Surface resistivity	Ohms		n.a.
Electric strength	KV/mm		n.a.
Dielectric constant		D150	3,4

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ACETAL COPOLYMER POM C

GENERALITY

POM is a polyacetal resin and is presented as a very crystalline and rigid plastic material, used in the replacement of metal and in the execution of various mechanical parts where is necessary to have high tensile strength, resistance to alternate flexions and fatigue; high modulus of elasticity, hardness, toughness and resilience, both at high and at low temperatures, excellent resistance to plastic creep and thus considerable elasticity, minimum water absorption, high dimensional stability, low coefficient of friction, wear resistance, excellent resistance to corrosion and to organic solvents, excellent dielectric properties, excellent machinability.

Rods are available in stock, slabs upon request.

FEATURES	UNIT	Method ASTM	VALUE
Specific Weight	Kg/dm^3	D792	1,42
Water absorption	% by weight	100%	0,2
Tensile strength	Kg/cm^2	D638	700
Compressive strength	Kg/cm^2	D659	1100
Deformation strength	Kg/cm^2	D790	991
Impact strength	Kg/cm^2	D256	6,1
Hardness Rockwell	Kg/cm^2	D1706	118
Modulus of elasticity	Kg/cm^2	D638	30000
Melting point	°C		175
Coefficient of thermal expansion	x °C		$81x10^{-6}$
Operating temperature	°c		100
Surface resistivity	Ohms		1014
Electric strength	KV/mm		24
Dielectric constant		D150	3,7

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BAKELITE

GENERALITY

Multy layer plastic material obtained with components of pure cotton fabric appropriately treated with phenolic thermosetting resins. It has high mechanical characteristics and discrete electrical features. Easy to be machined in order to obtain parts for the following applications: electromechanical, electrical engineering, mechanical.

Available in slabs.

FEATURES	UNIT	Method ASTM	VALUE
Specific Weight	Kg/dm^3	D792	1,36
Water absorption	% by weight	100%	2
Tensile strength	Kg/cm^2	D638	1450
Compressive strength	Kg/cm^2	D659	3400
Deformation strength	Kg/cm^2	D790	1700
Impact strength	Kg/cm^2	D256	30
Hardness Rockwell	Kg/cm^2	D1706	60
Modulus of elasticity	Kg/cm^2		n.a.
Melting point	°C		190
Coefficient of thermal expansion	x °C		n.a.
Operating temperature	°c		120
Surface resistivity	Ohms		10^7
Electric strength	KV/mm		n.a.
Dielectric constant		D150	n.a.

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TESSIT

GENERALITY

Product made of pure cotton fabric and phenolic resins; It has excellent mechanical and dielectric characteristics. Suitable for the construction of large silent gears, bearings, bearing elements, as well as for low voltage equipment and in oil.
Excellent machinability.

Available in slabs and rods.

FEATURES	UNIT	Method ASTM	VALUE
Specific Weight	Kg/dm^3	D792	1,35
Water absorption	% by weight	100%	0,35
Tensile strength	Kg/cm^2	D638	650
Compressive strength	Kg/cm^2	D659	2700
Deformation strength	Kg/cm^2	D790	1300
Impact strength	Kg/cm^2	D256	25
Hardness Rockwell	Kg/cm^2	D1706	60
Modulus of elasticity	Kg/cm^2		n.a.
Melting point	°C		190
Coefficient of thermal expansion	x °C		n.a.
Operating temperature	°c		120
Surface resistivity	Ohms		10^7
Electric strength	KV/mm		n.a.
Dielectric constant		D150	n.a.

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SICOGLASS - METHACRYLATE

GENERALITY

It's a transparent plastic material widely used in shipbuilding, mechanical engineering and construction. Main technical features are the high transparency (92 % light transmission of transparent plates), high impact resistance, excellent resistance to weathering, UV protection, sound absorption and thermal insulation, ease of processing and thermoforming.

Available in slabs and canes.

FEATURES	UNIT	Method ASTM	VALUE
Specific Weight	Kg/dm^3	D792	1,2
Water absorption	% by weight	100%	0,2
Tensile strength	Kg/cm^2	D638	560
Compressive strength	Kg/cm^2	D659	750
Deformation strength	Kg/cm^2	D790	820
Impact strength	Kg/cm^2	D256	4
Hardness Rockwell	Kg/cm^2	D1706	92
Modulus of elasticity	Kg/cm^2		40000
Melting point	°C		190
Coefficient of thermal expansion	x °C		$150x10^{-6}$
Operating temperature	°c		90
Surface resistivity	Ohms		10^{14}
Electric strength	KV/mm		n.a.
Dielectric constant		D150	3

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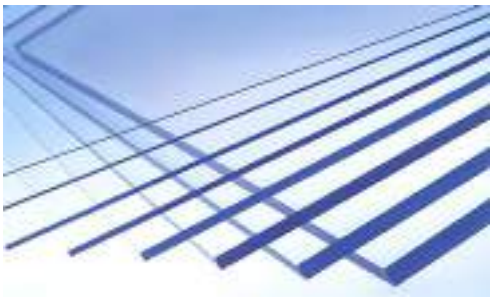
SOLID POLYCARBONATE SHEETS UVP



GENERALITY

Polycarbonate solid sheets have excellent mechanical, thermal and electrical properties, and also a high impact-resistance and a considerable flexibility, they are almost unbreakable and thermostable within a temperature range between -40 °C and +135 °C.

The sheets are UV protected on the both sides and are manufactured, through coextrusion, applying UV protecting lining to the same sheet. This process keeps unchanged the sheet main properties, such as trasparency and brightness, making them particularly suitable for external use.

APPLICATIONS

Polycarbonate solid sheets find application in the most different sectors, such as building and architecture, for the construction of barriers, guards and in the industry field to manufacture safety coverings, protective screens, antisound barriers.

CHEMICAL COMPATIBILITY

the polycarbonate solid sheets resist to mineral acids in high concentrations, to a lot of organic, oxidatives and reducing acids, to acid and to neutral saline solutions, some greases and oils, alcohol (except methylic) and aliphatic hydrocarbons. They are not compatible with alcalinic solutions, gaseous ammonia and amines, they can be etched by a lot of solvents. The organic compounds such as benzol, acetone and carbon tetrachloride cause the swelling of the sheets.

PVC KRISTALL

Trasparent extruded PVC, available in sheets and stripes.
It is used in flexible door manufacture.
Transparent and easy to apply, It is suitable to create barriers that isolate the local thermally and acoustically.

STRIPES	
5509.2520	200x2 - L=50 mt - 0,6 Kg/mt
5509.2530	300x3 - L=50 mt - 1,1 Kg/mt
5509.2540	400x4 - L=50 mt - 2,0 Kg/mt

ROLLS	
5509.2020	Sp 2 - MT 20x1 - 2,6 Kg/mq
5509.2030	Sp 3 - MT 20x1 - 3,9 Kg/mq
5509.2040	Sp 4 - MT 20x1 - 5,2 Kg/mq
5509.2040/1	Sp 4 - MT 20x1,3 - 5,2 Kg/mq

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Brake Linings

M & B

BRAKE LININGS
FRICTION SOLUTIONS FOR INDUSTRIAL AND MARINE APPLICATIONS

INTRODUCTION

Semi-flexible Asbestos-Free brake lining, manufactured from a solid woven fabric of both natural and man-made yarns with a brass wire inclusion, which helps to stabilise the friction value by conducting heat from the operating surface.

When the woven fabric is impregnated with the specially developed synthetic resin it produces a friction material with excellent stability and high resistance to wear.

APPLICATION

A most efficient general purpose Asbestos Free brake lining suitable to be used on several applications, including winches and cranes for both marine and industrial applications.
This material can be supplied for use on oil immersed applications, although the friction value will be much lower than the features on dry conditions.
Both surfaces can be supplied ground, making it suitable for bonding and riveting to either internal or external contracting braking systems.

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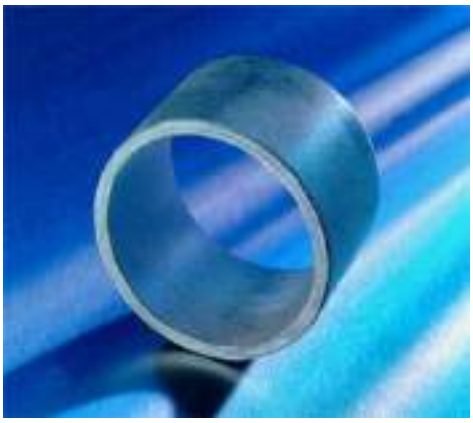
Composite Bushes

COMPOSITE BUSHES



GENERALITY

Composite material, particularly indicated to operate under severe conditions, when a material with elevates load and abrasion characteristics, along with min. swelling in water is required (rudder and propelling shaft). Due to the total absence of lubricants, it is an absolute environmentally friendly material and it's approved by Classification Societies.

STRUCTURE

Composite material, specially manufactured for bushes and wear strips, it's obtained by impregnation of synthetic fabric reinforced with thermosetting resin added with PTFE, lubricants and MoS_2.

APPROVED

RINA

APPROVED BY THE MOST IMPORTANT CLASSIFICATION SOCIETIES

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No Spray Products

MB FLANGE SPRAY SHIELD
ANTI SPLASH PROTECTION

GENERALITY

The flanged couplings conveying aggressive chemical fluids, flammable or dangerous, are considered dangerous in case of accidental leakages that may cause serious risks to personnel and nearby machineries.
MB Flange Spray Shield has been expressely designed to prevent possible damages caused by fluid spills due to sudden leakages, with the aim to indicate and temporary contain the fluid allowing the operators to intercept the pipeline and repair the malfunction.

STRUCTURE

MB Flange Spray Shield is made of Stainless Steel 316 with adjustable locking system. Manufactured for UNI, ASA or customized flanges, every shield is marked with DN and PN in order to facilitate the installation during the maintenance operations.

Upon request **MB Flange Spray Shield** can be manufactured by using synthetic fabrics with laces and velcro closing system. Also available with pH indicator or transparent fabrics in order to facilitate inspections and maintenance operations. A cleaning drainage can be installed to discharge the collected fluid.

APPROVED

RINA

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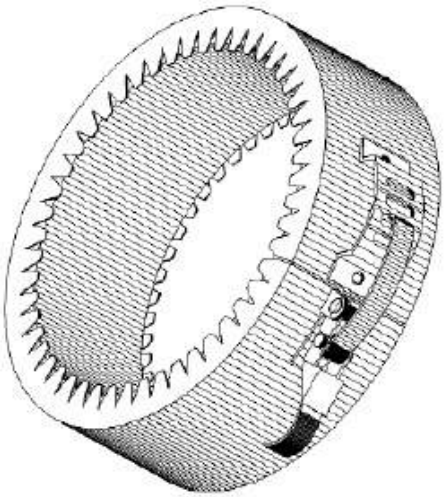
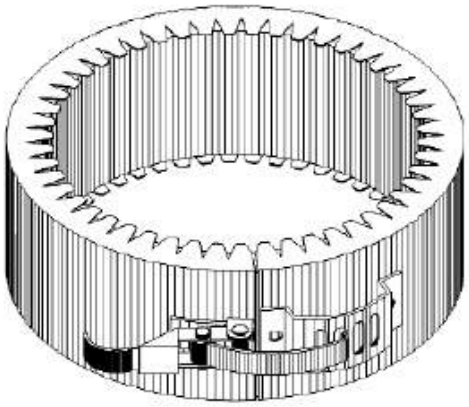
INSTALLATION AND MAINTENANCE INSTRUCTIONS





- Be careful to wrap **MB Flange Spray Shield** around connection with hook locking system toward top.
- Once installed **MB Flange Spray Shield** the pipeline will be safe, no special tools are required to put in service the safety device.
- In case of spray or leaks **MB Flange Spray Shield** will contain fluids protecting nearby personnel, environment and technical equipment.
- In case of spray or leaks **MB Flange Spray Shield** will contain fluids protecting nearby personnel, environment and technical equipment.
- M&B recommend to inspect **MB Flange Spray Shield** if it has been in contact with chemicals before reusing.
- **MB Flange Spray Shield** must be replaced if it resul damaged or in presence of any signs of wear.
- The Customer is recommended to plan regular inspection of **MB Flange Spray Shield**.
- Life of **MB Flange Spray Shield** depends on the working environment. Every device is supposed to be changed as needed.
- The Customer is reccomended to consult M&B in case of any questions regarding **MB Flange Spray Shield** and it's applications.

MB PYR ANTISPLASH TAPE

SOLAS REGULATIONS II-2/15.2.9/.10/.11/.12 STATES THAT:

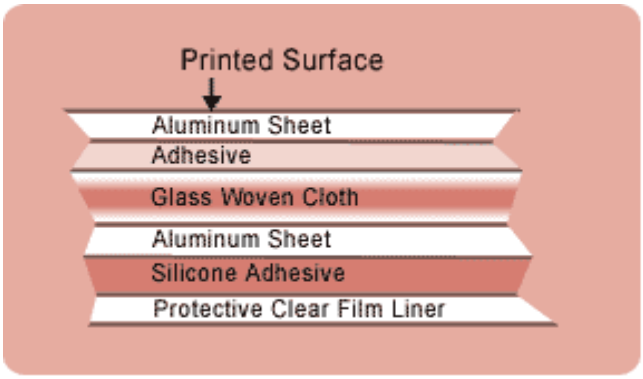
- Fuel oil lines shall be screened or otherwise protected to avoid oil spray or oil leakages onto hot surfaces, into machinery air intakes, or other sources of ignition.
- All external high pressure fuel delivery lines between the high pressure fuel pumps and fuel injectors shall be protected with a jacketed piping system capable of containing fuel from a high pressure line failure.
- Ships constructed before 1st july 1998 shall comply with the requirements not later than 1st july 2003.

TYPE APPROVED PRODUCT

MB PYR FIRE PROTECTION SYSTEM is an aluminium/glass cloth jacketing system designed to prevent the flamable spray of hot oil which can come in contact with hot surfaces thus causing fires in vessel engine rooms.
MB PYR FIRE PROTECTION SYSTEM is available in tape and is coated one side with a silicone adhesive for ease of installation and superior adhesion.

SPECIFICATIONS

Format (10 mts rolls)	35 - 50 - 140 - 250 - 500 - 1000 mm
Thickness	0,3 mm
Colour	silver
Temperature range	up to 150° C
Working pressure	300 psi (20,7 bar)
Tensil strenght	93,2 lbs per Inch (ASTM -882)



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PACKAGING

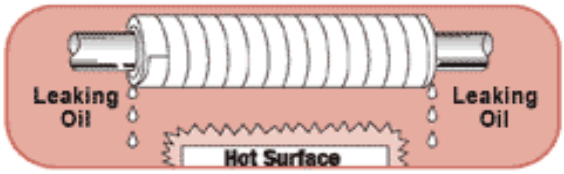
IMPA N°	WIDHT	LENGHT
871801	35 mm	10 m
871802	50 mm	10 m
871803	140 mm	10 m
871807	250 mm	10 m
871805	500 mm	10 m
871806	1000 mm	10 m

APPLICATIONS INSTRUCTIONS

1) Be sure that the surfaces to be protected are cleaned and oil free.
2) Select the **MB PYR** FIRE PROTECTION SYSTEM format applicable to your installation and, with adhesive film in place, cut with scissors as follows:

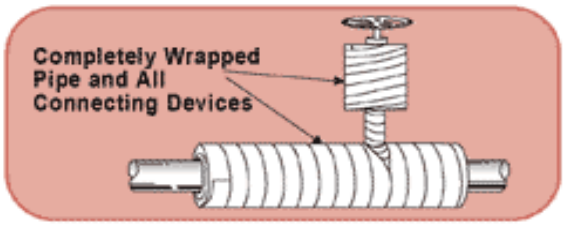
For pipes and joints

Use **MB PYR** FIRE PROTECTION SYSTEM tape and allow overlapof 50% each turn.



For valves, flanges and other irregular shaped equipment

Use **MB PYR** FIRE PROTECTION SYSTEM sheet and cut one piece:



- Lenght to wrap 2 layers thick around surface to be protected.
- Widht to be enough to completely cover bolts and overlap onto connecting pipe at least 100 mm (4”).
- Special care must be taken where devices are connected to the pipe being wrapped. In this case, the **MB PYR** FIRE PROTECTION SYSTEM must be wrapped around the attached device as well as the pipe.

For protection of insulated high temperature surfaces

MB PYR FIRE PROTECTION SYSTEM sheet can be used to protect hot surfaces which are in close proximity to potential oil spray in the engine room.

- Apply a **MB PYR** FIRE PROTECTION SYSTEM sheet or tape peeling off the adhesive film in order to avoid contamination of the adhesive surface with dust or oil prior to application. Wrap snugly around the pipe or joint in the likely direction af an oil spray leak.
- For maintenence and repairs, **MB PYR** FIRE PROTECTION SYSTEM can be removed by cutting with a knife, or tearing off with pliers. **MB PYR** FIRE PROTECTION SYSTEM cannot be reused once removed from service.

Note

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info@montiebarabino.it

Rubber Profiles

M & B

RUBBER PROFILES FOR W.T. DOORS AND HATCHES

GENERALITY

Available on stock a wide range or rubber profiles,single foam density and double density type, suitable for water tight doors and hatches.
The **RUBBER FOAM** is made in EPDM foam and can be supplied in a wide size range with square, round or rectangular sections.
The **DOUBLE DENSITY PROFILE** is available in five sizes on stock.

Hatch cover rubber seals

Expanded closed cells EPDM profile, with film on three sides in order to make it waterproof. Suitable to manufatcure watertight seals, it also guarantees acoustic and thermal insulation, as well as vibration dumping.
A wide range of sizes is available in stock. Every size can be manufactured upon request.

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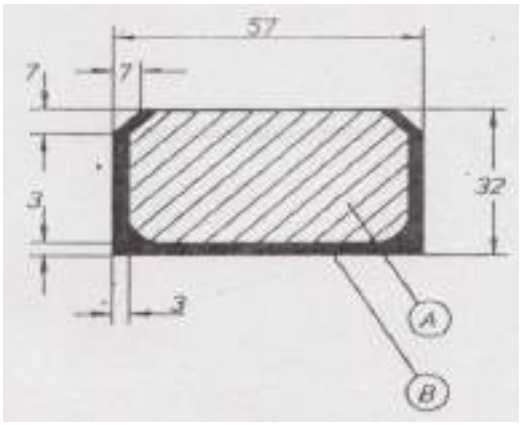
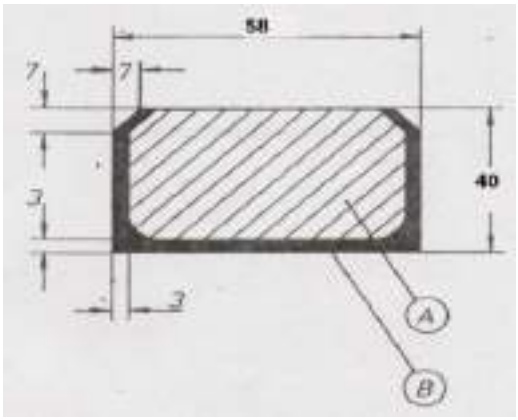
Double density rubber seals

It is a special gasket for the hold hatches made in solid and sponge rubber. The outer cover (B) is made with compact EPDM in order to ensure a good mechanical resistance. The inner part of the gasket (A) is in foam EPDM in order to guarantee the necessary elasticity.



Cod.3426.5732



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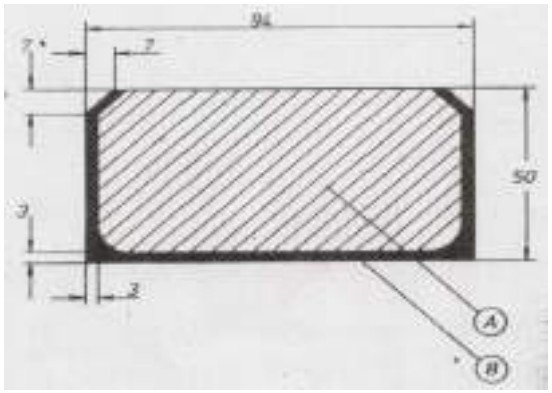

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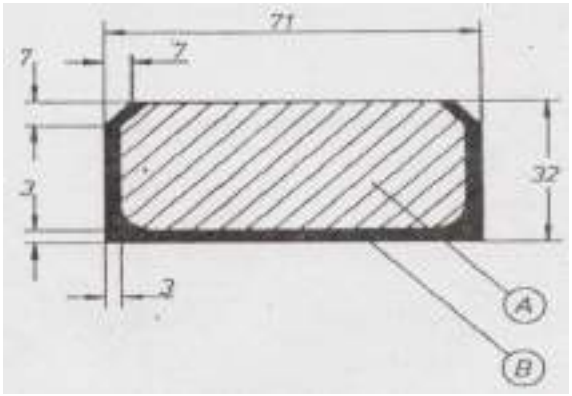
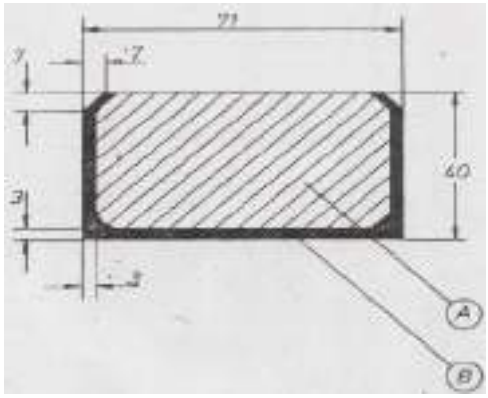


Cod.3426.7132



Cod.3426.7140

RUBBER FENDER “D” SHAPE

GENERALITY

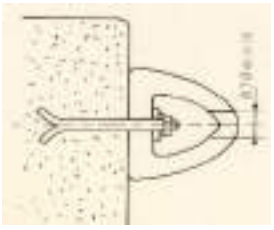
Extruded bored profile produced with a special synthetic black rubber compound, spotless on the contact surfaces.
It is supplied in 5 meters lenghts, can be tailor-made and bored for a quick and economic application, allowing the partial substitution of worn fender lenghts.
Used as protection on piers and floating docks or to prevent hull damages to tug boats fishing boats and patrol boats.

CHARACTERISTICS

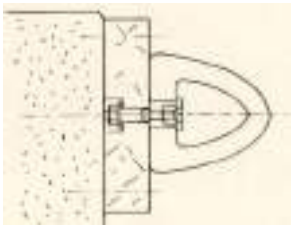
Fender with excellent resistance to shearing stress, salt water, ageing and hydrocarbon traces.
Thanks to its peculiar “D” shape has a very low weight and allows the maximum shock absorption.
The round profile eliminates every hooking risk and because of the wide contact surface it guarantees a good stability.

ASSEMBLING

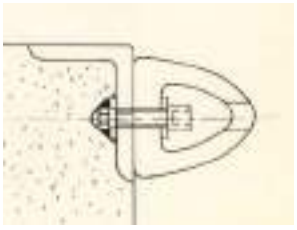
It can be easily connected to the surface to be protected by means of an internal iron plate and bolts.



ON CONCRETE



ON WOOD/CONCRETE



IRON ON CONCRETE

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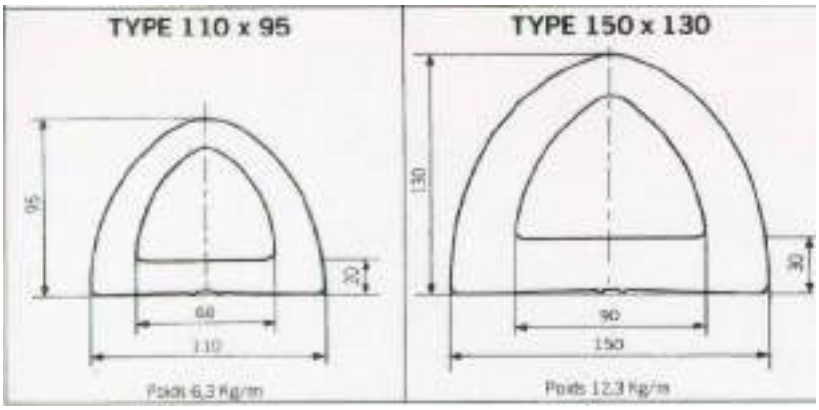

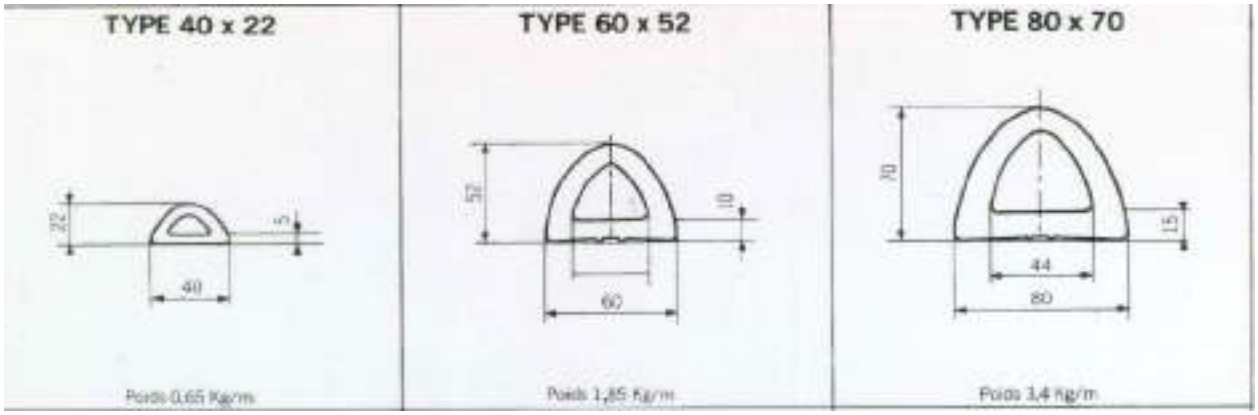

NOTE !! THE REPORTED SIZES ARE APPROXIMATE

OUR TECHNICAL OFFICE IS AVAILABLE FOR FURTHER INFORMATION

LED SILICONE PROFILES

GENERALITY

LED flexible profile with point or uniform brightness, realized in extruded silicone rubber, thermo-dissipating and LED circuits of high quality. Available in various colours and sizes, also upon request.
LED profile Patented Technology allows the coextrusion of a LED strip in a silicone profile, dotted or dottles, whose properties come from a blend of fantasy and technology, breaking every bond since known.

APPLICATIONS

Buildings and infrastructure, Commercial places and shop windows, Architectura, Home, Trade show and theatre exhibitions, General signage, Markers for walkways and stairs, Appliances, Public displays, Special effects, Swimming pools and Spa, Hotels and restaurants, Parks and gardens, Nightclubs in general, Accident prevention, Nautical, Automotive, Industrial and many more...

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Couplings and Accessories

M & B

COUPLINGS AND ACCESSORIES

A wide range of fittings and accessories is available from stock or on demand. For special applications, our workshop is able to realize special couplings in a short time.









SPECIAL EXECUTIONS UPON REQUEST


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CLAMPS, TIES AND TAPES FOR FLEXIBLE HOSES ASSEMBLING






MORE DETAILS ON
“FLEXIBLE HOSES AND ACCESSORIES” CATALOGUE

Note

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info@montiebarabino.it

Maintenance and Treatments

WENCON®

EPOXY PRODUCTS FOR REBUILDING AND PROTECTION

Two component expressly designed for the repair of worn or damaged metal parts, can be used on **any metal** with a simple **mixing ratio of 1:1**, which makes it easy to use and optimizes the intervention of maintenance in terms of product consumption and downtime.
They are used for maintenance of maritime engineering, shipbuilding, mining, petrochemical industry for the repair of installations such as pumps, pipes, metal rails, worn surfaces in general or in the preventive maintenance of parts subject to corrosion.

WENCON CERAMIC CREAM

Wencon Ceramic Cream has a high abrasion resistance, making it suitable for applications on propeller nozzles, rudders, thruster tunnels and housings. In addition, the product also offer high temperature resistance, which makes it ideal for applications on gas scrubbers, condensers and end-covers.

IMPA 812592

WENCON CERAMIC COATING

Typical applications are coating of surfaces rebuild after deterioration and protection against wear, corrosion and bi-metallic corrosions. Wencon Ceramic Coating has a high abrasion resistance, making it suitable for applications on propeller nozzles, rudders, thruster tunnels and housings. In addition, the product also offer high temperature resistance, which makes it ideal for applications on gas scrubbers, condensers and end-covers.

IMPA 812593/4

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WENCON CREAM

Wencon Cream is a basic two-component, epoxy compound with a wide range of applications for repair and rebuilding of worn, damaged, cracked and corroded metal parts.

ISSA 75.553.20 IMPA 812335

WENCON COATING

Wencon Coating is a two-component, liquid epoxy coating suitable for a wide range of applications. It provides a smooth non porous surface, which is resistant to bi-metallic corrosion, light chemical aggression, corrosion and erosion as well as impingement.

ISSA 75.553.10/11 IMPA 812337/8

WENCON UW CREAM

Wencon UW Cream is a two component cream, to be applied on wet surfaces or under water. The UW Cream is excellent for filling up holes, dents and rebuilding of surfaces which, due to high humidity, has to be done in wet conditions.

ISSA 75.553.91 IMPA 812334

WENCON UW COATING

Wencon UW Coating is a two component product, to be applied on wet surfaces or under water. The UW Coating is ideal for repair of ballast- and cooling pipes, in connection with Wencon reinforcement tape. Excellent for repair jobs which, due to high humidity, have to be done in wet conditions.

ISSA 75.553.192 IMPA 812336

WENCON HI TEMP COATING

Typical applications are coating of surfaces rebuild after deterioration including repair of lining on inert gas systems, fresh water generators, hot pipes and heating coils, protection of tanks, pumps and valves against chemical and mechanical aggression, corrosion and bi-metallic corrosion.

ISSA 75.553.12/13 IMPA 812345/46

WENCON RAPID

Wencon Rapid is a fast curing two-component, epoxy compound with a wide range of applications for emergency repairs and maintenance.

ISSA 75.553.21/22 IMPA 812347/43

WENCON PIPE TAPE

Wencon Pipe Tape is a fast curing pipe repair bandage especially formulated to make quick and effective repairs of cracks, leaks, fractures, and corrosion porosity in piping carrying water, oil, steam, most gases and even solvents. Wencon Pipe Tape has good pressure, temperature and chemical resistance.

ISSA 75.553.30/31 IMPA 812344/48

WENCON EXHAUST REPAIR KIT

Wencon Exhaust Repair is a one-component steel cold weld product that can be used to repair cracks and holes in equipment exposed to temperatures up to 1300°C (2400°F).

ISSA 75.553.25 IMPA 812340

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WENCON REPAIR KITS FOR EMERGENCY REPAIRS

Wencon Repair Kits are available in different sizes, depending on the size and age of the vessel. Covers most aspects of emergency repairs and long lasting maintenance. Suitable for all ships, where repairs and maintenance are carried out frequently.
This on-board first aid kit contains a technical manual with detailed application data sheets, which support you fully with repairs, planned maintenance and improvements on board the vessel.
The Wencon Repair Kit is supplied in a strong plywood box suitable for shipping and storage on board.

KIT	IMPA	ISSA
1	812341	75.553.70
2	812331	75.553.71
3	812332	75.553.72
4	812333	75.553.73

WENCON STOCK POINTS ARE AVAILABLE ALL OVER THE WORLD FOR FAST DELIVERY OF ORDERS TO LOCAL AGENT

CORDOBOND®

MAINTENANCE EPOXY PRODUCTS

Epoxy products for the maintenance in the industrial and marine sector where a reliable and lasting repair is required. They are characterized by excellent mechanical strength, vibration and abrasion resistance.
It adheres strongly to most metals in the presence of holes and cracks in pipes, ducts, flanges and machinery in general, even in the presence of water, low pressure steam, gas, oil and chemicals.

STRONGBACKBOND STANDARD RESIN 1 lb ISSA CODE 81 23 01

Two-component product, consisting of epoxy resin and activator, suitable for naval and industrial applications. In combination with glass cloth it can be used for reinforcement and repairs. Resistant to water, oil, alcohol, chemicals, it adheres to steel, wood, glass ceramics and synthetic materials (no P.P. and P.E). It does not conduct electricity, is not magnetic, it is corrosion proof and resistant to temperature changes.
Cod. 6525.1100

STRONGBACKBOND STEEL PUTTY 1 lb ISSA CODE 81 23 10

Is a two-component epoxy resin with a putty-like structure reinforced with carborundum for heavy applications. After mixing Activator (hardener) and Resin an exothermic reaction takes place. This results in a thicker substance. After hardening the material is as strong as iron. Is not magnetic and does not conduct electricity.

Cod. 6525.1150

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LOCTITE FIXMASTER 7202 - MARINE CHOCKING

GENERALITY

Self-leveling, no shrinking compound with excellent resistance to vibrations and chemical agents, which behaves like a thick liquid. High adhesion to concrete and metal floors. Recommended for the installation of components for which the alignment is critical.

TYPE APPROVED:

				Lloyd's Register	NAVSEA	CFIA

APPLICATIONS

Loctite® Fixmaster 7202 Marine Chocking is a two-part epoxy system recommended for the installation of main engines and other equipment. It achieves 100% surface coverage, precise equipment alignment, high compressive strength and long term durability.

Loctite® Fixmaster 7202 Marine Chocking was specifically developed for chocking marine main propulsion and auxiliary machinery. Other shipboard applications include: Sterntube and Strut Bearings, Pintle and Rudder Bearings, Pedestal Bearings, Steering Gears, Stern Winches, Engine Room Pumps, Cargo Pumps, Cable Penetrations, Large Ball or Roller Bearings, Bow Thrusters and Anchor Windlasses.

Color	*Packaging Size*	*Volume*	*Viscosity*	*T. Max*	*Compressive Strength*	*Hardness*	*Working Life*	*Cure Time*	*Mix ratio by weight*
	(kg)	(cc)	(cP)	(°C)	(N/mm^2)	(Shore D)	(min)	(ore)	(Resin: Hardener)
Green	9,8	6100	15000	121	150	90	15	24	100:6,9

Note

www.montiebarabino.it
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Safety

MB LADDER PILOT SAFE

As per MSC 308 (88) amendments to SOLAS V Ch. 23

Relating to pilot ladder, is stated that on all ships (new and existing), starting from the 1st July 2012, an approved anchorage system has to be used during the pilot transfer operations.

MB Ladder Pilot Safe is a special anchorage system, suitable to fix the pilot ladder on the ship bulwark during the transfer operations onboard, in order to avoid uncontrolled movements at sea.

Magnetic Anchorage

- Galvanized Steel base plate & handle for marine conditions.
- Resin encapsulated magnet elements.
- Stainless Steel ring.

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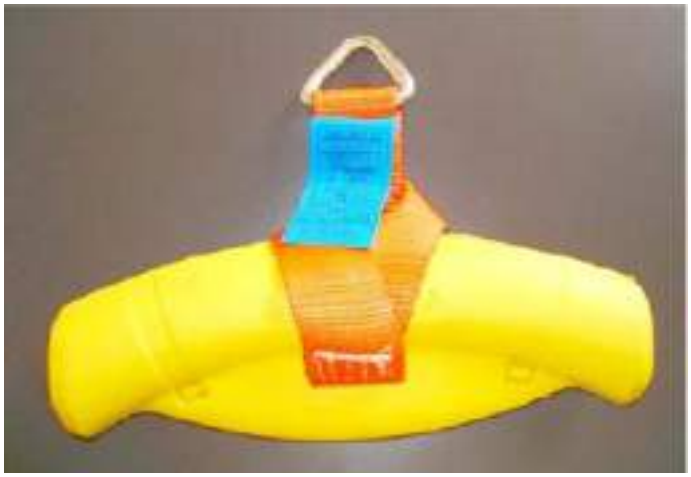
HOSE SADDLE

Made in wearproof polyurethane, expressely designed for lifting and hooking flexible hoses during load and offload operations. Available in a wide range of sizes, up to 12”.

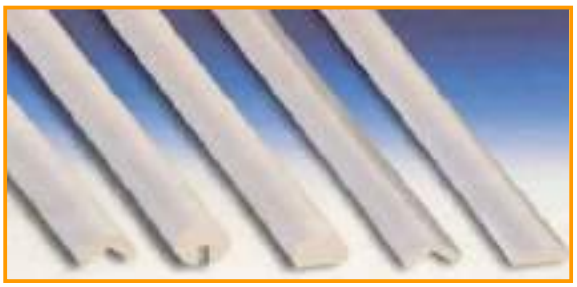


FEATURES

- Effective protection against environmental pollution and fluid waste.
- Maintenance free, suitable to prevent damages to the hose structure.
- It’s particular shape is designed to prevent skidding and twisting of the flexible hose.
- Antispark, antistatic and insulating, with a range of temperature -40°C to + 130°C ageing and weathering resistant.
- Oil and fuel resistant, suitable to be used in contact with a wide range of chemicals.
- Easy and cheap maintenance of the lifting belt.
- Various sizes available, from 1” up to 12”.

IMPACT PROTECTION PROFILES

SIGNS AND SAFETY



Self-Adhesive and soft impact protection profiles available in different shapes and sizes, suitable to offer a lightweight protection in areas where impacts with heavy vehicles are expected. They prevent injuries from accidental impact with corners or edges in frequent traffic passages.

- They are used on body bolsters, passages,walls, machineries and vehicles in order to make more evident the dangerous points and to protect from accidental impacts of corners and edges.
- They are manufactured from flexible age resistant polyurethane foam and they have a long duration and wear resistance. Easy to install.
- Temperature: from-40°C to +100 °C, suitable for inside and outside areas.
- Self-adhesive profile suitable for concrete, metal or wood surfaces.
- Available in yellow, yellow/black or white colour, supplied in 1 mt standard length.
- They can be easily cut on site with a sharp blade in order to fit any position.

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FLEXIBLE DYKES

Flexible flat or shaped berms suitable to seal off or deviate accidental or expected spills during maintenance operations. They do not absorb the product and can be easily cleaned and reused saving management and discharge costs.
Made with a special self adhesive polyurethane, adheres perfectly to the ground also in the presence of uneven floors. It is resistant to oils, hydrocarbons and most chemicals.

BARRAGE DAMS

- Rectangular section mm 3000x100 H 70
- Rectangular section mm 2000x50 H 45
- Circular section mm Ø 450 x H 45
- Circular section mm Ø 850 x H 45

FLAT DAMS

- Size mm 400x400 tk 13
- Size mm 600x600 tk 13
- Size mm 800x800 tk 13
- Size mm 900x900 tk 13
- Size mm 1000x1000 tk 13
- Size mm 1200x1200 tk 13
- Diameter mm Ø 450 tk 13
- Diameter mm Ø 850 tk 13

Note

www.montiebarabino.it
info@montiebarabino.it

Special Textiles and Tapes

DRY CARGO® - HATCH SEALING TAPES

GENERALITY

According to rules and regulations, metal hatch covers on cargo vessels are expected to be water-tight without the aid of further applainces. **DRY CARGO®** sealing tape offers a valid and effective solution to problems of hatches sealing.
It is produced in 20mtr rolls of bitumen compound coated onto polythene film and interleaved with release paper, expressely designed to avoid any possible infiltration.

1) The joint should be brushed clean, taking care to remove the paint or metal particles. In cold conditions the tape should be stored in a heated area immediatly before use.
2) Unroll the tape along the joint and cut it to the necessary length. Remove the interleaving paper.
3) Press the adhesive surface over the joint, covering for at least 25 mm the two sides of the seam.
4) To remove, simply scrape off.

COMMERCIAL SIZES

DRY CARGO® is available in two distinct grades **Heavy Duty** (**HD**) and **Standard Duty** (**SD**)

STANDARD DUTY			
Cod	***mm***	***Qty***	***ISSA***
8825.0110	100x1,6	3 **rolls**	23 24 52
8825.0160	150x1,6	2 **rolls**	23 24 53

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ANTI-CORROSION TAPE

GENERALITY

The anti corrosion tape has been developed for long term protection of metal surfaces that are underground, underwater, or exposed - even in the most severe environments. Consisting of a cold applied tape of petrolatum-based product, it adheres to surfaces without heating, even on damp and/or indifferently prepared areas.

FEATURES

- Repels water, salt, alkalis and acids.
- Protects new or corroded surfaces.
- Temperature variances between -40°C to +84°C.
- Will not crack, peel or harden.
- Non-toxic and environmentally friendly.

Width	*Length*	*ISSA*
50 mm (2”)	36 x 10 mt	81 24 71
100 mm (4”)	18 x 10 mt	81 24 72

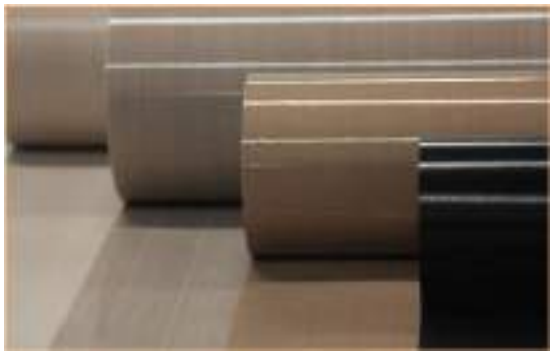
APPLICATIONS

Steel pipes, flanges and valves, welded pipe joints, cooling tower piping, pipe crossings, tank bases, pipe & sprinkler systems, electrical connection boxes, cable splices, hydraulic pipes, valves & fittings, marine pilings.
Before applying the tape, the surface should be brushed clean, taking care to remove the paint or metal particles.

PTFE / FIBERGLASS FABRICS

GENERALITY

Glass fibers woven fabrics impregnated with polytetrafluoroethylene (PTFE). This composite material combines the chemical and physical properties of PTFE and the dimensional stability and the mechanical strength of glass fibers fabrics. Available the normal (A) and adhesive version (AP).



FEATURES

- highly anti-adhesive surface and extremely low coefficient of friction.
- wide thermal resistance: from - 260 up to + 260 °C normal version / -55 / +200°C adhesive version.
- non toxicity/food contact compatibility, fungus, mildew and bacterial attack resistance, transparency to microwaves and UV rays, excellent chemical inertness.
- high mechanical resistance, dimensional stability, low thermal expansion and high dielectric strength.

MAIN APPLICATIONS

Food industry for lining of cooking and drying vessels, anti-adhesive linings of bakery and confectionery products, pre-cooked meals, anti-stick surfaces for frozen food production, conveying and sliding tables.

Packaging and packing for covering of heated plates and bars for welding of plastic bags and containers, belts for automatic packaging and packing lines.

Textile and paper for covering of rollers, idle rollers plates of thermoforming presses.

Electrics and electronics for insulating wrappings of electrical motors, generators, bobbins, cables, conductors, resistors, switches, etc.

COMMERCIAL SIZES

Available in a wide range of types and qualities depending on the level of PTFE impregnation and the required surface finish, as well as on the type of base fabric used, in rolls of 1.000 mm of height or 50 mm of width rolls. A self-adhesive version is also available. The standard length is 30 mt but customized sizes of tapes can be manufactured.

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COATED FABRICS FOR DIAPHRAGMS

Coated fabrics	*U.M.*	*Required values*	*Test method*
Thickness	mm	0,8 ± 0,05	UNI EN ISO 2286-3
Weight	g/cm^2	900 ± 10%	UNI EN ISO 2286-2
Tensile strenght warp	N/5 cm	≥ 2500	UNI EN ISO 1421
Tensile strenght weft	N/5 cm	≥ 2500	UNI EN ISO 1421
Elongation at break warp	%	≥ 40	UNI EN ISO 1421
Elongation at break weft	%	≥ 40	UNI EN ISO 1421
Adhesion	N/cm	≥ 10	
Temperature Range	°C	-30° / +90	
Finish		Smooth	
Curing		Cured	

Raw fabric	*U.M.*	*Required values*	*Test method*
Fabric		Nylon	
Weight	g/m^2	170 ± 5	UNI 5114
Thickness	mm	0,35 ± 0,02	UNI EN ISO 5084
N° of threads		17x17	

Compound	*U.M.*	*Required values*	*Test method*
Elastomer		NBR	
Specific Weight	g/cm^3	1,38 ± 0,05	UNI 4814 - 4
Hardness	° Sh A	70 ± 5	UNI EN ISO 868
Colour		Red	

Note

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Flexible Hoses

MULTIPURPOSES FLEXIBLE HOSES

A wide range of flexible hoses for all applications. Hydraulic hoses, also approved, rubber, plastic, stainless steel or composite hoses, available in stock or upon request for special applications. We also have an indoor facilitiy for hose testing, also in the presence of Classification Societies.

HYDRAULIC HOSES, ALSO TYPE APPROVED

MED Certified

Parker

RUBBER HOSES FOR MARITIME AND INDUSTRIAL APPLICATIONS

STAINSLESS STEEL FLEXIBLE HOSES

COMPOSITE HOSES

PLASTIC HOSES

MORE DETAILS ON "FLEXIBLE HOSES AND ACCESSORIES" CATALOGUE

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Miscellaneous

ECOSONEX

SMOOTH ADHESIVE DEADENING PANEL

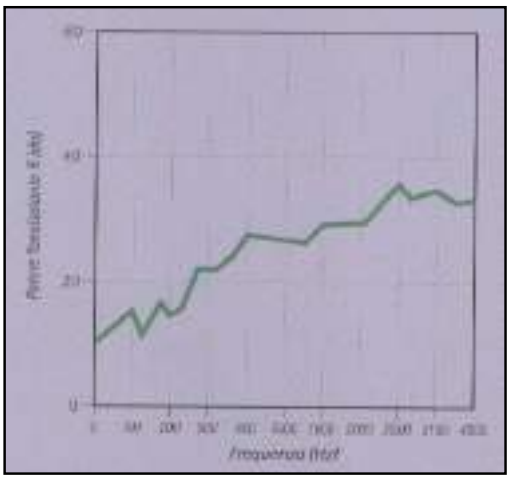
cod. 8771.1120

GENERALITY

Deading panel composed by polypropylene core placed between two flexible foamed polyurethan resin layers. One side is coated by a anti-oil film while the other side is self-adhesive in order to facilitate the installation The open-cells structure is suitable for enviroment and noisy instruments insulation. It's compact structure makes it suitable for many application such as fairing engine compartment sound-proofing, compressors, machine tools, partition walls.

FEATURES

Self-extinguishing	In accordance with UL 94 HF1
Density	35 Kg/m^3
Color	Grey
Operating temperature	from - 40° up to +120° C
Commercial size	1000x1000x20 mm
Fixing method	Glue or Mechanic



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ECOSONEX
PYRAMIDAL DEADING PANEL

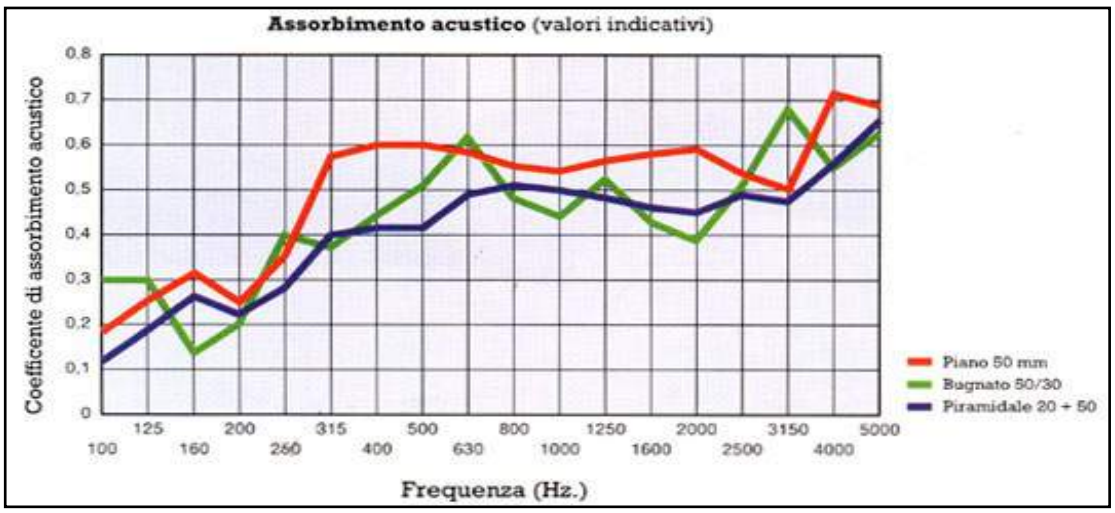
cod 8771.1170

GENERALITY

Deading panel manufactured in foamed polyurethan resin. The open-cells structure is suitable for enviroment and noisy instruments insulation both in industrial and civil range. The particular pyramidal shape makes it suitable for many applications like gyms, auditorium, recording rooms, anechoic room etc, where a sound insulation is required.

FEATURES

Self-extinguishing	In compliance UL 94 HF1
Density	35 Kg/m^3
Color	Grey
Operating temperature	from - 40° up to +120°C
Commercial size	1000x1000x70 (50+20)
Fixing method	Glue or Mechanic



ARMAFLEX NH®

APPROVED THERMOACOUSTIC INSULATION

NH/Armaflex® special halogen-free insulation has been specially developed to reduce smoke density to a minimum in the event of fire and to eliminate as far as possible any toxic contamination such as dioxins and furanes.
NH/Armaflex® contains no flame proofing agents, PVC, CFC or HCFC's and when it is exposed to severe fire, it will burn like any other organic material, however, the flammable components do not contain any corrosive or decomposing elements. It provides protection against diffusion of water vapour, as a closed-cell material, and features all the properties which you can expect from a flexible elastomeric insulation, such as low thermal conductivity, dust and fibre free.

FEATURES

- Self - extinguishing
- Energy saving
- CFC and HCFC free.
- Prevents from corrosion
- Available in tapes, tubes and sheets

APPLICATIONS

Insulation for pipework, tanks and air ducts, for prevention of stress corrosion in stainless steel pipes and particularly in the following fields: marine sector, general ship-building off shore, rail-transport, computer rooms and other areas, where chlorine-free materials are required. To be applied with **ARMAFLEX 520** approved adhesive.

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TECHNICAL DATA

Description:	Flexible closed-cell insulation
Material:	Elastomeric foam based on synthetic rubber
Aspect:	Smooth surface - color black
Temperature range:	From -50° C up to +110° C(+85°C if glued)
Thermal conductivity	l<= 0,040 W/(mxk) @ 0° C (DIN 52612) l<= 0,045 W/(mxk) @ 40° C (DIN 52613)
Water vapour diffusion resistance	≥ 2000 in accordance with EN 12086 / 13469

FIRE PERFORMANCE	
1) Reaction to fire	TUBES: DL - s3 -d0 SHEET / TAPE: E
In accordance EN 13501/1 - 13823 and ISO 11925-2	
3) Fire behaviour	Self-extinguishing, does nor drip, does not spread flames.

The reported values are for guidance purposes only and are issued in order to provide a guideline for product selection. They could be changed without notice or / and any commitment by the Company.

VILEDON® FILTER PSB 290/S

COD. 8771.0290/1 - ISSA 81 30 01

COARSE FILTRATION	
EU 4 DIN 24 185	G 4 EN 779

PSB/290 S has a progressive structure:
layers of fibers with differing diameters are arranged behind each other so as to ensure that the density of the fiber layers increases towards the clean air side, thus achieving optimized defined filter output and dust holding capacity. The result: longer useful filter lifetime.
Viledon filter media satisfy the stringent requirements of Fire Class F1 according to DIN 53 438 and are self-extinguishing.

APPLICATIONS

Due to their high dust holding capacity and their resultant long useful lifetimes, PSB filter mats are particularly costefficient. It is especially effective in applications requiring stable arrestance in spite of high dust loading and high air flow rates.

Weight, approx	gr/m²	300
Thickness approx.	mm	20
Thermal stability	°C	up to 100
Relative Humidity resist.	%	up to 100
Size	MT	2x20

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CONVEYOR BELTS

GENERALITY

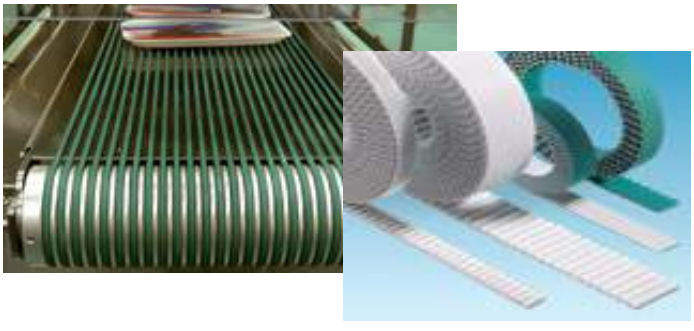
The handling system with conveyor belts is certainly one of the most widespread in the industrial field. The wide range of products allows employees to create solutions for any type of transmission line, both internal and external.

CUSTOMIZED SIZES

We produce conveyor belts on customer's request, using the most appropriate material for different applications. The surface can be made of metal, PVC, industrial rubber, food or polyurethane rubber. Depending on the application the area of contact with the product can be smooth or with inserts and special surfaces.

The conveyors are manufactured, depending on the Customer's reequirements, welded or open with metal joints for quick and easy installation.

Tapes and polyurethane or rubber beltsare available for the realization of transport lines.



Note

Note

Monti & Barabino S.p.A.

Progettazione e realizzazione grafica:
Andrea Zuffa Graphic Designer
www.andreazuffa.it

Monti & Barabino S.p.A.

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