

Beltsiflex

belts technologies

GRUPO PEOSA

GRUPO PEOSA consists of various companies which manufacture technical rubber products intended for different industrial, marine and mining areas:

SIBAN PEOSA, S.A.U. as the manufacturer of the Beltsiflex conveyor belts and more specifically in the development of belts with special applications, takes the leading position within the group. Particularly, it innovates, manufactures and supplies products which solve the common problems users might have with conveyor belt installations.

GLOBAL SERVICES ON BELTS TECHNOLOGIES, S.L. provides maintenance services to companies within the area of the conveyor belts and manufactures rubber molded goods and extruded profiles as well as hot vulcanized rubber drum lagging. The Marine division manufactures molded products and marine fenders for docks protection.

DEBUSMAN, a **GRUPO PEOSA** company, focuses on the field of global solutions for the supply and service of the equipments developed by the group's companies, and it also focuses on the representation of manufacturers that are internationally renowned in such diverse sectors as ports, shipyards, steel mills, mining, cement, public works, machinery manufacturers, theatre-auditoriums, etc.

In addition, we rely on continuous service companies dedicated to the maintenance, installation and repair of conveyor belts.

- **SIBAN SERVICES GMBH** (Austria)
- **NEUMÁTICOS Y BANDAS LYRSA,S.L.** (Spain)





THE BELTSIFLEX CONCEPT

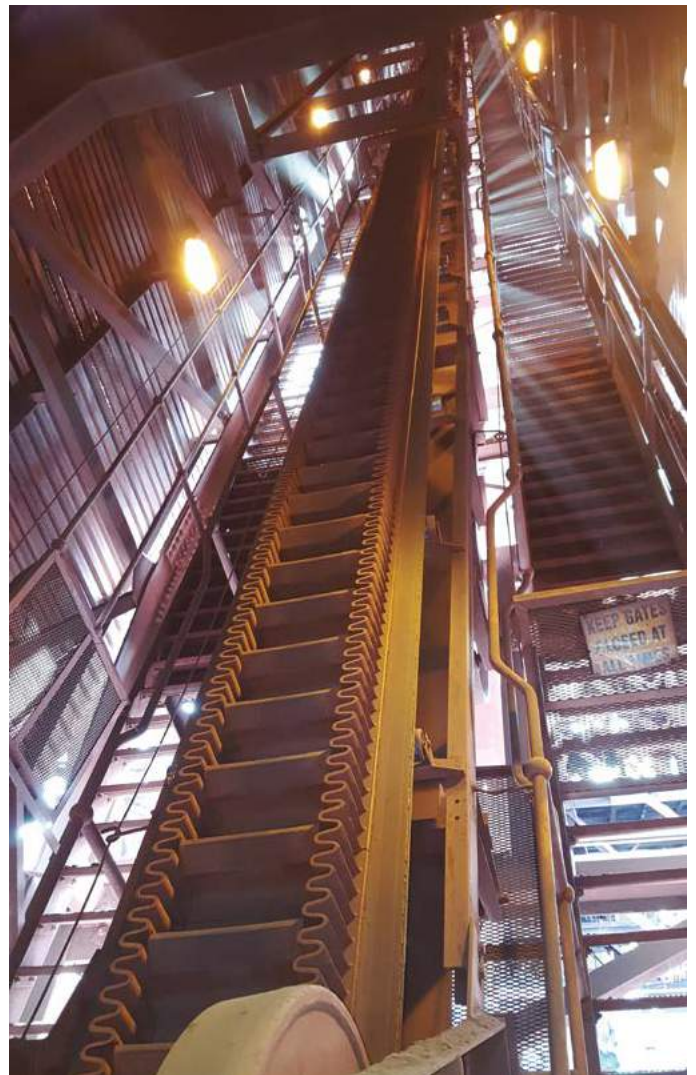
Our belts, equipped with **sidewalls and cleats**, have been developed mainly for very steep inclined applications, **up to a gradient of 90°** (vertical plane).

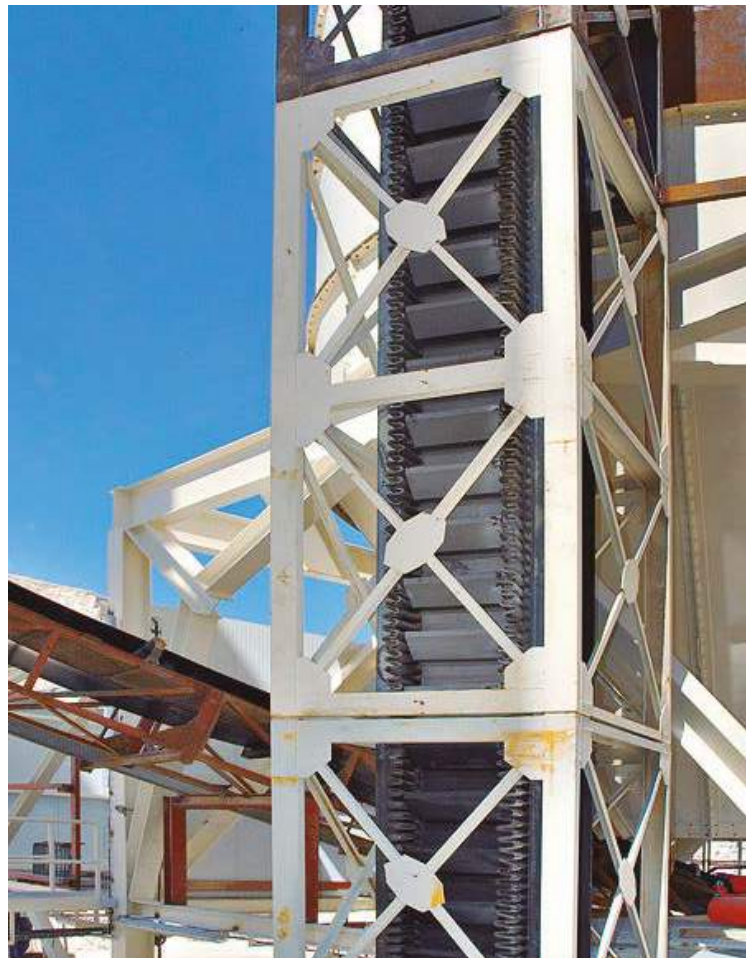
As highly flexible conveyor belts, they facilitate **switching from horizontal to inclined conveying** (and viceversa); they can even be adapted to different layouts or arrangements to suit our client's needs.

TECHNOLOGICAL INNOVATION

The **Beltsiflex[®] system** is an R&D project that achieves the required technology to produce conveyor belts thanks to a continuous automated process.

The security, stability and durability of the belts are achieved by hot vulcanizing the entire belt as a single unit.





BELTSIFLEX CONVEYOR BELTS

CONVEYOR BELTS

We manufacture our Beltsiflex® conveyor belts with synthetic fabrics:

- Special structures to obtain different physical properties and to maximize the general performance of the conveyor belt.
- Special materials to obtain different mechanical properties, materials such as polyester, aramide, polyamide, basalt, glass, etc...

We acknowledge that the rubber mixtures employed in the manufacturing:

- Comply with the international standards.
- They are in-house developed rubbers for specific applications.

Series production for standardized widths and lengths.

Special production for intermediate widths and lengths, on request, we can offer a maximum width of 5,500 mm with longitudinal splice for any type of production.



STEEL CORD BELTS

Manufacturing of carcasses that incorporate steel cord tensioning longitudinally along the belt, 7x7 or 7x19, according to the diameter necessary to obtain the required resistance of the belt. Structures with metal breakers, depending on their applications, might be added to the covers of the belt. Belts with **Fleximat®** mesh.



SPECIAL APPLICATIONS BELTS

- **Slide Belt:** Belts manufactured with low friction coefficients on their top side. This fabric makes sliding on a flat surface easier.
- **Grip Top Belt:** These belts have a rough textured top cover. This prevents material from sliding on the belt. Particularly suitable for inclined belting of parcels and sacks.
- **Metal Breaker Belts:** These belts are particularly indicated for the transportation of large productions, heavy duty applications requiring significant width dimensions or belts with an anti-break resistance.
- **Hard Woven Belts:** Beltsiflex presents the manufacturing of a new fabric used to fabricate conveyor belts called Straight Warp, a new concept for rubber belts. Hard-Woven belts are manufactured out of this new Straight Warp fabric and have several advantages over conventional EP fabric belts, achieving high performance in applications where there is a risk of breakage and cuts.
- **Vulcanised Profiles Belts:** With the aim of adapting Beltsiflex belts to any special transport situation, we have developed agile construction systems which allow the installation of all types of profiles on the belt. Vulcanised by thermofusion, they can be produced to order according to specific transportation requirements.



- **Self Centering Belt:** This new type of conveyor belt offers inherent and continuous self-alignment without having to modify the conveyor or running gear and above all without installing expensive equipment and additional accessories to correct belt tracking problems.



- **Overband Covers Belts:** Belts with these covers incorporate magnetic separators. They are made to order, according to the working conditions of each line.

- **Cushion Belt:** This new product development **Beltsiflex®** is a belt, specifically designed to support big impacts without being affected by such conditions, the cohesion of the internal components that make up the band. This extraordinary property is achieved by a newly rubber developed Beltsiflex able to absorb the energy emitted by the body when it impacts and also the vibrations inherent therein. Preserving thereby the integrity of the band.



- **Spout Belts:** Belts specially indicated for use with shot blasting machines. They are made to order according to each machine's specifications. Holes are perforated in the belt with the aid of numerical control programmes in order to obtain great accuracy.

- **Bucket Elevator Belts:** Manufactured according to the client's needs and perforated with waterjet system and numerical control programmes.

- **Belts with Longitudinal Splice:** Up to 5,500mm.

WHITE-FOOD GRADE BELTS

WHITE - FOOD GRADE CONVEYOR BELT

We manufacture conveyor belts suitable for food products, in accordance with the European law EC 1935. Our belts have been tested by national and international independent laboratories and have proved their compliance with the XXI BfR qualification. This allows us to issue the ANIA statement for products intended to come into contact with food.

Our belts are developed to withstand weather conditions and harmful ozone pollution. They also have great oil and fire resistance.

We provide the Food Belt in different colours:

- **GF:** Green Food
- **BF:** Blue Food

RANGE OF WHITE-FOOD GRADE BELTS

- **WF:** White Food Quality
- **WFG:** White Food and Oil Resistant Quality
- **WFKG:** White Food, Flame Resistant and Oil Resistant Quality



GREEN-FOOD GRADE CHEVRON BELT

We manufacture the Green-Food Grade Chevron Belt from approved rubber in compliance with the German XXI BfR qualification and in accordance with the European legislation regarding products suitable for food contact and plastic objects intended to come into contact with food.

This product has been tested and approved at an official laboratory authorized by the European Union.

The characteristics of this product include the following:

- Excellent adaptability to bulk transport
- High resistance to abrasion and ageing



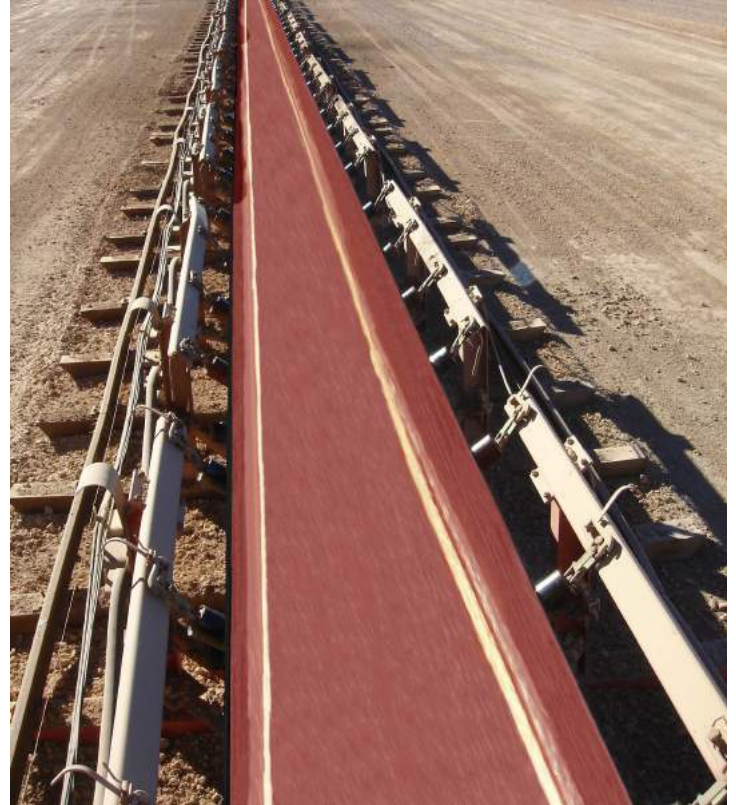
SRC-35 BELT

SRC-35 BELT (ABRASION SPECIAL COMPOUND). The use of this **polymer** layer applied to the conveyor belt establishes a new product family that will develop this sector in a very important way. The physical and mechanical properties of the product represent an unprecedented development for conveyor belt cover properties for the toughest applications.

Characteristics such as the cover **abrasion level, tensile strength and elongation at break** are increased to levels beyond those that can be achieved with any type of rubber. These properties allow thinner belts to be used than a standard rubber equivalent whilst improving belt lifetime and offers considerable energy saving potential.

MECHANICAL PROPERTIES

1. **Tensile strength DIN 53504: 50MPA**
2. **Elongation at break DIN 53504: 700%**
3. **Hardness ISO 868: 85 Methop A**
4. **Density DIN 53505: 1,2 g/cm³**
5. **Abrasion DIN 53516: 30mm³**
6. **Compression SET 72H, 23°C ISO 815: 25%**
7. **Resilience impact ISO 4662: 42%**
8. **Tear propagation resistance ISO 31-1: 70 kn/m**
9. **Temperature range: -30+70 °C**



SRC-35 OTHER CHARACTERISTICS

- Oil and fat resistant
- Approval for FDA for food industry.

The manufacturing of belts with **SRC-35 (ABRASION SPECIAL COMPOUND)** is developed according to the application requirements. The belt carcass is usually a standard construction, or can follow the design of the **Cushion Belt**.

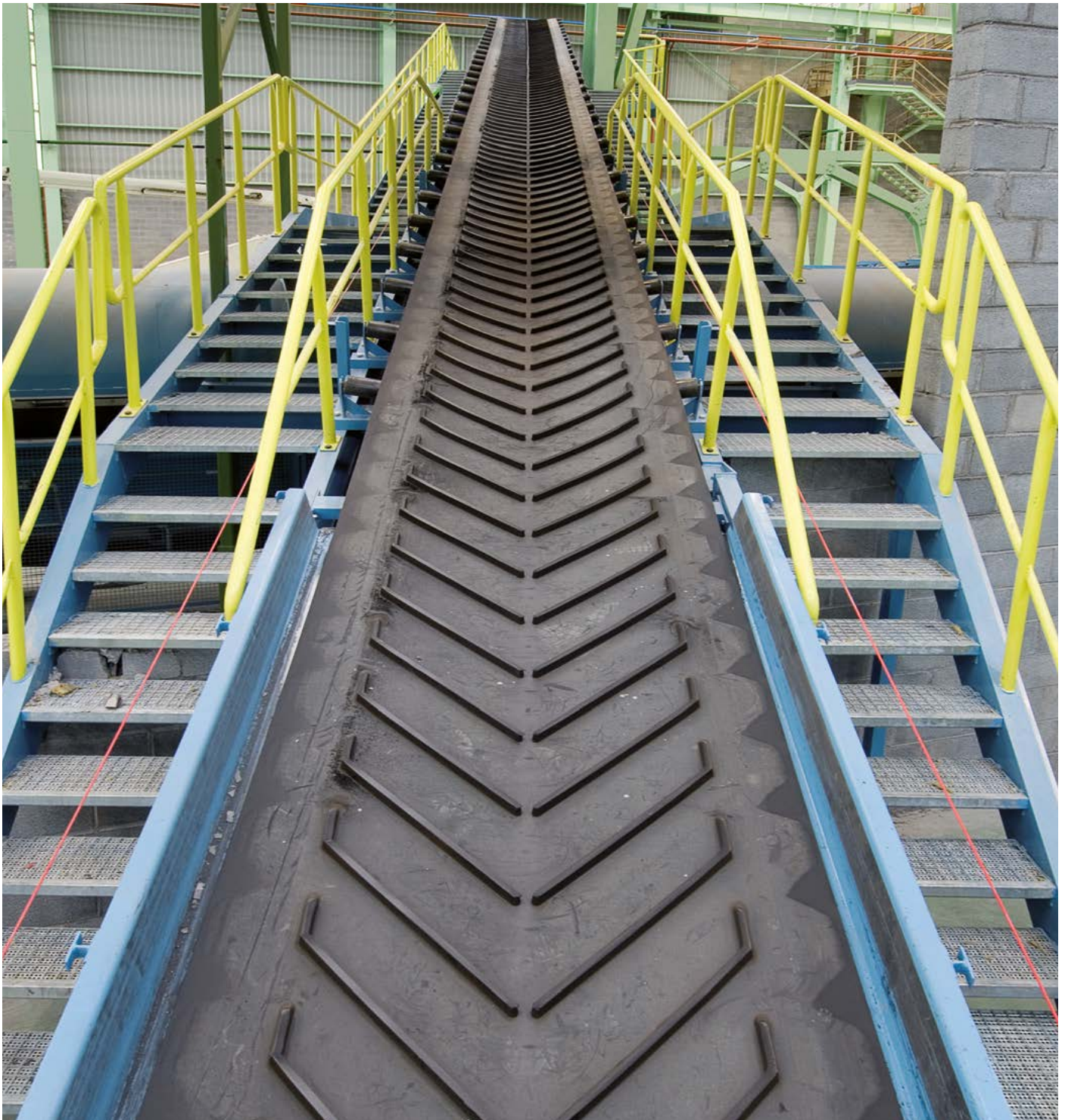


The **SRC-35** covers can be applied to just one cover or to both top and bottom covers. Belt dimensions are calculated and matched to the requirements of the **service load, demands of the installation and client request**.

CHEVRON CONVEYOR BELTS

Belts recommended to move material on inclined planes. Depending on the nature of the product and the type of belt chosen, they can even transport goods at an inclination of 45°.

We serially manufacture a wide variety of models which we keep in stock and to order for special chevrons.



ACCESSORIES

HOT SPLICING KIT

The Hot splicing kit can be offered in different qualities: normal quality, heat resistant quality, oil resistant quality, flame retardant quality and white.

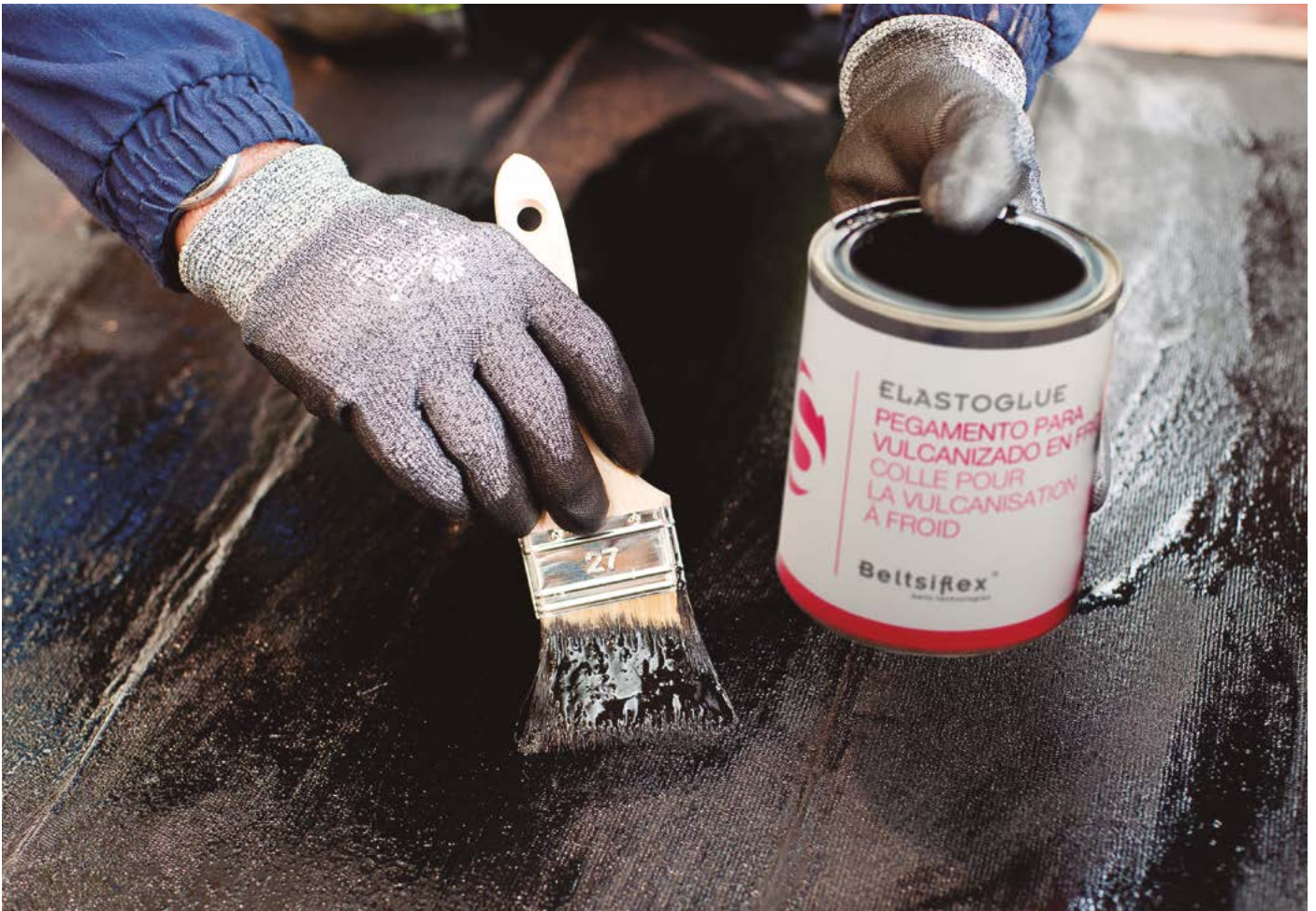
PATCHES WITH / WITHOUT FABRIC

These patches are available in different types (with or without fabric reinforcement), different shapes (round, diamond shaped and in strips) and different sizes to fit the repair area.

ACCESSORIES FOR COLD VULCANIZING

Elastoglu is the suitable product for cold bonding of rubber conveyor belt, fabric and steel. In order to activate the bonding process, **Elastoglu** must be mixed with Hardener.





RUBBER SHEET

We specialise in the development of elastomers for application in the Automotive, Construction, Foodstuff, Agriculture, Chemical, Timber, Waste & Recycling, Shipping and Engineering industries.

We offer rubber sheet in thicknesses from 1mm up to 150mm in different hardness of between 30 and 90° Shore. A range of different finish options are available.



EXTRUDED PROFILES

Our production line for the manufacturing of extruded rubber profiles guarantees a quick response that meets our client's needs.

We can manufacture any type of profile made to order using the most suitable material: wear resistant, high temperature resistant, oil resistant, high tensile strength materials etc.

The fields of application of our products are wide ranging, including any type of profile found in various sectors such as:

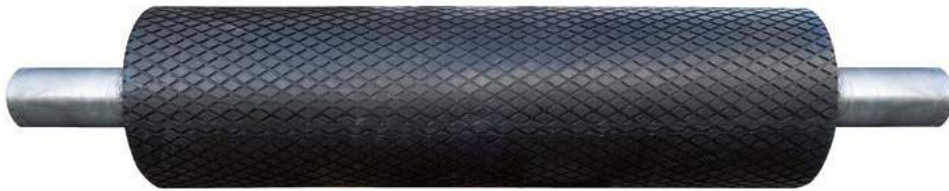
Construction, automotive industry, mining, electronics, telecom, pharmaceuticals, engineering, transport, maritime sector, capital goods...



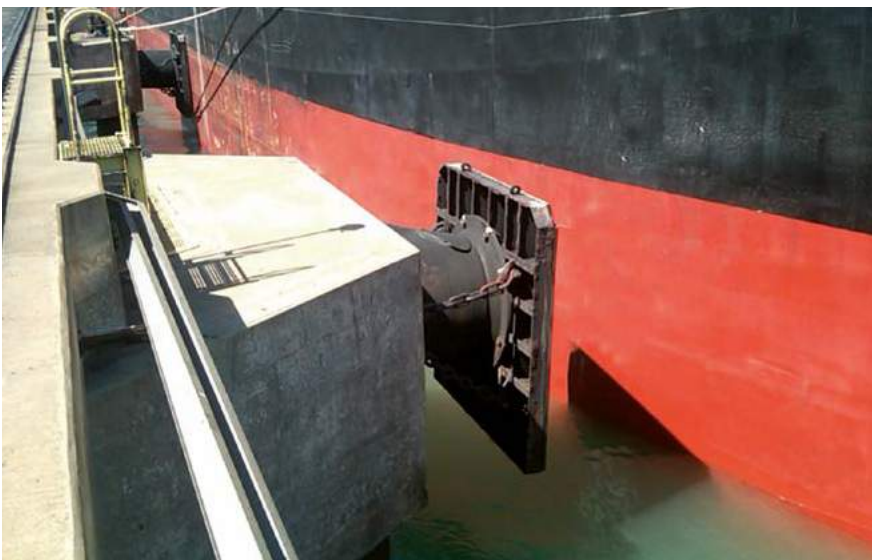
PULLEY LAGGING

Our ongoing R&D and working together with our clients, allows us to develop a complete and varied range of formulas, all capable of adjusting to all kind of industrial uses.

According to our customers' needs and based on the formulas investigated and researched in our laboratories, we make our own mixtures using all kinds of rubber. Covering the drums with rubber increases the friction coefficient between the conveyor belt and the drum, even under the worst operation conditions (soaked/wet).



MOULDED PRODUCTS FOR THE FISHING INDUSTRY AND MARINE FENDERS





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