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For any technical clarification or any questions in relation on the commercial qualities, covers, lengths, widths or tensile ratings available, please make contact with your nearest Beltsiflex® distributor.

Beltsiflex®

belts technologies

EXCELINE
Special belts

Siban

Beltsiflex®

belts technologies

- Self-aligning Beltsiflex® belt
- SRC35 Beltsiflex® belt
- Beltsiflex® Cushion Belt

Beltsiflex®

belts technologies

Self-aligning Beltsiflex® belt

As a result of our continuing research and development to offer innovative and improved products, Siban presents a new series of conveyor belts to enhance the successful range of Beltsiflex® products.

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.

Why use this new type of Beltsiflex® conveyor belt on your conveyors?

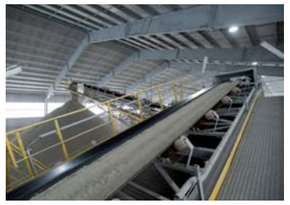
The main problem that most conveyor systems face is misalignment (often called tracking) of the conveyor belt where the belt runs off to one side.

This misalignment brings a number of undesirable consequences such as:

a) Obstruction of the entire conveyor system due to continuous spillage of material.

b) Prolonged spillage of the material reduces conveyor efficiency through belt damage, wear to mechanical components and increased frictional drag, thus negatively affecting production.

c) Deterioration and damage to the belt edges shortens the belt life time.



Facilities

This new type of Beltsiflex® belt is appropriate for the following facilities:

a) All industrial applications e.g. Port facilities, mines, foundries, chemical plants, steel plants, cement plants, power generation, minerals processing facilities, quarries etc.

b) Conveyors with unequally distributed loading, i.e. where conveyors are not loaded centrally, have multiple feed points, are part loaded or overloaded at the sides e.g. due to frequent surges in feed rate.

Advantages

The use of this new type of Beltsiflex® conveyor belt has a number of advantages:

a) Increased stability along the entire belt length, eliminating the risk of misalignment and thus preventing the early deterioration of the edges of the belt, ensuring greater belt life is achieved.

b) Drastic reduction in friction contact with non-moving parts of the conveyor structure, resulting in less wear to the belt thus increasing the working life of the belt and conveyor structure.

c) By reducing friction between the belt, structure and spilled material, the power required to drive the conveyor is reduced proportionally. In some cases it may be possible to reduce drive motor size, significantly improving overall conveyor performance.

d) Increased production capacity. Due to the increased stability in the central zone the reduced wandering of the belt brings reduced spillage of material and an associated reduction in cleaning costs. It also offers the potential to increase the troughing angle as the belt is more flexible at the edges, offering increased conveying capacity.

e) The opportunity to work with higher troughing angles (above 45°). In certain cases the belt can reach troughing angles (close to 90°).

f) The conveyor belt is equally suited to all applications where a standard conveyor belt is used.

SRC35 Beltsiflex® belt

SRC-35 (Impact Special Compound). The use of this thermoplastic 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.

Dimensions

Top cover (mm)	between 2 y 10
Bottom cover (mm)	between 2 y 10
Tensile strength	As customer request
Maximun width (mm)	1.800
Maximun lenght (Mts)	As customer request and depend of the belt
Thickness(mm)	As customer request
Weight (kg/m2)	As customer request

Mechanical properties

1. Tensile strength DIN 53504	MPA	51
2. Elongation at break DIN 53504	%	425
3. Hardeness ISO 868	Method A	85
4. Density DIN 53505	g/cm3	1,2
5. Abrasion DIN 53516	mm^3	30
6. Compresion SET 72h; 23 °C ISO 815	%	25
7. Resilience impact ISO 4662	%	42
8. Tear propagation resistence ISO 31-1	Kn/m	70
9. Temperature range	°c	-30+70

OTHER CHARACTERISTICS

a) Oil and fat resistant.

b) Approval for FDA for food industry.

The manufacturing of belts with SRC-35 (Impact 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.

Beltsiflex® Cushion Belt

- RI covers with excellent abrasion properties are suitable for tough working conditions with big impacts.
- The belt carcass is constructed with special rubber to absorb big impacts.

RI Rubber Covers (Black color)

This special cover contains natural rubber and other special compounds that give this belt excellent cut and abrasion resistance properties.

Technical characteristics of RI Rubber:

Tensile strength	MPA min	22
Elongation at break	%	550
Hardeness	Shore A	60 +/-3
Density	$grs./cm^3$	1,10 +/-0,2
Abrasion	mm^3	60

Carcass with cushion rubber between plies (Grey color)

This cover is constructed with an additional special rubber with low hardness index and big cushioning properties. This type of rubber is suitable to absorb any type of high height impact thanks to its characteristics. The design has 2 elements:

· Fabric carcass covered with rubber.

· Special cushion rubber.

Technical characteristics:

Tensile strength	MPA min	18
Elongation at break	%	625
Hardeness	Shore A	50 +/-2
Density	$grs./cm^3$	1,12 +/-0,2
Abrasion	mm^3	-