

## Belts for SUGAR INDUSTRY



**Food approved process**  
**Safe industrial environment**  
**High productivity**



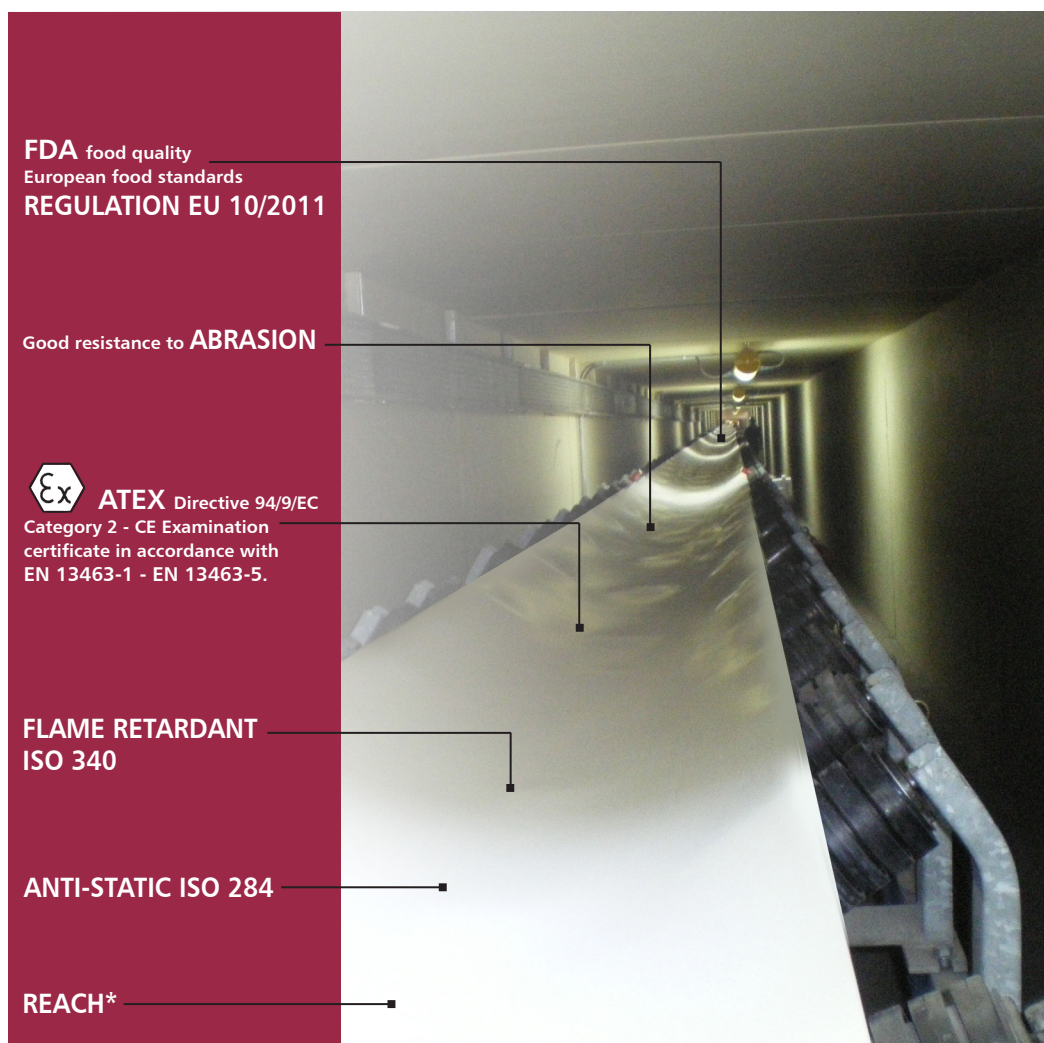


## Belts for the Sugar Industry

Covering the different mechanical specifications required in each case (light conveyors, trough conveyors, bucket elevators), we offer various options:


























### FEBOR 21 CC - FEBOR 31 CC - FEBOR 32 CC - FEBOR 41 CC - FEBOR 91 CC

The PVC structure itself permits more specific and efficient formulations than rubber, perfectly matching the special requirements of the industry:



\* Esbelt requires and monitors that all of its materials suppliers comply, and consults the data base to look for hazard information.

### General characteristics of esbelt FEBOR belts for the sugar industry:

Type	Top cover		Bottom cover		Special characteristics	Constant temperature °C	N°of plies	Total thickness mm	Total weight Kg/m <sup>2</sup>	at 20°C		Working load at 1% elong. N/mm
	Colour	Thickness mm	Colour	Thickness mm						A Ø mm	B Ø mm	
FEBOR 21CC EU *	White	2,00	White	1,00	FDA EU     	-15 +80	2	5,00	6,10	140	190	20
FEBOR 31CC EU *	White	2,00	White	1,00	FDA EU     	-15 +80	3	6,10	7,60	200	250	30
FEBOR 32CC EU *	White	2,75	White	1,50	FDA EU     	-15 +80	3	7,40	9,40	300	350	30
FEBOR 41CC EU *	White	2,00	White	1,00	FDA EU     	-15 +80	4	7,40	9,20	300	350	35
FEBOR 91CC EU *	White	3,00	White	1,00	FDA EU     	-15 +80	3	9,60	11,90	400	500	75

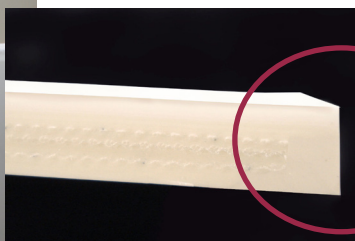
• =Belts also available in **FDA quality only**, **Anti-static ISO 284** and **Flamme Retardant ISO 340**



## FOOD APPROVED PROCESS:

**esbelt** sugar conveyor belts comply with all food regulations helping to ensure safer food products.

- **CERTIFIED FOOD GRADE:** FDA norm (Title 21 CFR section 175.300) and EUROPEAN REGULATION (UE 0/2011).
- **REACH:** European standard whose aim is to ensure that the substances that are manufactured or marketed do not adversely affect human health or the environment.
- **WHITE COLOUR** below ICUMSA 45.
- Belt covers **ANTIMONY (Sb) and PHTHALATES FREE.**
- **ODORLESS**
- **SEALED EDGES** (optional) to ensure 100% protection.



*Detail of a sealed edge.*

## SAFE INDUSTRIAL ENVIRONMENT:

### ATEX: EXPLOSION RISK

**ATEX** European directives establish the necessary measures to ensure the safety and health of workers against the risk in centres with potentially explosive atmospheres.

**esbelt** belts for the sugar industry are **FLAME RETARDANT (ISO 340)** and **ANTISTATIC (ISO 284)**, preventing sparks which could act as a source of ignition for a explosion, and are certified in accordance with:

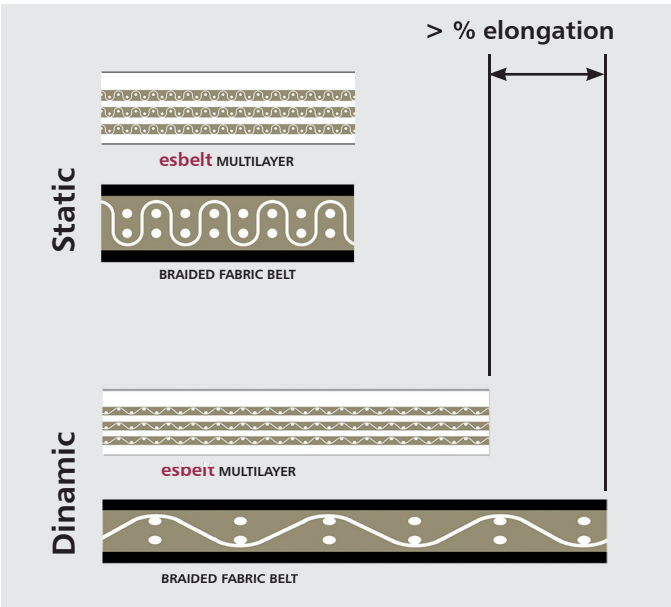
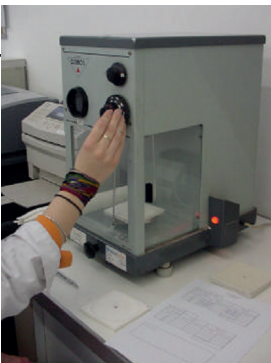
**ATEX DIRECTIVE 94/9/EC Category 2** in accordance with **EN 13463-1 2001 - EN 13463-5 2003**





HIGH PRODUCTIVITY:

- ABRASION RESISTANT (ISO 5740-1)
  - Enables a belt life up to 35% higher to other alternatives in the market.
- SMOOTH AND HOMOGENEOUS SURFACES. Help scrapers to be more effective with less pressure on the belt. Reduce particles that can be mixed with sugar.
- VULCANISED SPLICE that extends belt life and reduces damage by scrapers.
- HUMIDITY RESISTANT (hydrolysis)
- LIGHTWEIGHT: lighter belts mean reduction in motor energy consumption and less wear in the mechanical components of the conveyor.
- HIGH WORKING AND BREAKING LOADS that enable absorption of temporary overloads with less belt elongation, reduction in maintenance stops.
- ELONGATION: Multi-ply fabric construction distributes the load uniformly, reducing elongation.



December 2015

LESS STOPS  
↓  
INCREASED PRODUCTIVITY



SOME EXAMPLES:

SUGAR BEET	Belt type	Application	Conveyor dimensions	SUGAR CANE	Belt type	Application	Conveyor dimensions
	FEBOR 31 CC	Storage silo load.	650 mm x 150 m		FEBOR 91 CC	Centrifugal discharge of humid sugar, 230 t/h, with high temperature (90°C).	2000 mm x 65 m
	FEBOR 32 CC	Centrifugal discharge of humid sugar with high temperature (80°C).	2000 mm x 65 m		FEBOR 91 CC	Bucket elevator	1100 mm x 33 m
	FEBOR 41 CC	Transfer to silo	800 mm x 29 m		FEBOR 91 CC	Bucket elevator	450 mm x 47 m
	FEBOR 41 CC	Bucket elevator	650 mm x 33 m		FEBOR 91 CC	Storage silo discharge. Dry sugar 350 t/h	800 mm x 400 m

