

FIRECon®belts

MULTI-PLY CONVEYOR BELTS FOR UNDERGROUND APPLICATIONS



Conbelts



Conbelts S.A. is a significant producer and exporter of rubber conveyor belts across Europe, South America and Australia. Conbelts S.A offers comprehensive solutions for materials handling applications in mining (coal, iron ore, hard rock), mineral processing, and the thermal power industry. Other areas also include quarries, agriculture and construction industry.

HDCon®belts

SAFECon®belts

FIRECon®belts

We have developed our products, that include fabric core conveyor belts and other products based on rubber and PVC, that can withstand the harshest of mining environments.

Our products meet the highest quality and safety requirements. Our Quality Management System for our products is in accordance with ISO 9001-2008 standard. All of Conbelts S.A's maintenance services comply with the latest OH&S and hygiene standards according to PN-N 18001:2004.

FIRECon®belts represents flame retardant multi-ply conveyor belts. They are made of fabric carcass protected by covers and edges made of rubber or polymers. These belts are dedicated for transportation of bulk, chopped, and pelletized materials in underground environment. The FIRECon®belts series meets hard requirements of electric and fire safety accordingly to the PN-EN 14973 standard and has been classified to corresponding safety classes.



C

B

A

A, B, C SAFETY CLASSES FOR MINING EQUIPMENT

Accordingly to where belts are used, FIRECon®belts products are divided into three classes of electrical and fire safety up to international norm PN-EN 14973.





Flame retardant conveyors belts safety class 'B' (B1 and B2)

The flame retardant conveyor belts for general applications are dedicated for application in mining workings where the hazards are:

Limited access to the conveyor

Hindered escape means

Physical and chemical properties of belts with the 'A' safety class:

Surface resistance	Flame propagation	Glow propagation	Temperature on drums with appearing flame
			
Not less than 300 MΩ	Not allowed	Allowed	No limit

Class A – Flame retardant, multi-ply conveyor belt with the number of plies from 2 to 5 and safety features that meet requirements of the PN-EN ISO 14890 and PN-EN22721 standards in terms of design structure and PN-EN ISO 14973 with regard to electric and fire safety.

Flame retardant conveyors belts safety class 'B' (B1 and B2)






The flame retardant conveyor belts for general applications are dedicated for application in mining workings where the hazards are limited merely to:

Limited access to the conveyor

Hindered escape means

Occurrence of potentially explosive atmospheres

Physical and chemical properties of belts with the 'B-1' and 'B-2' safety class operating on conveyors with additional protection:

Surface resistance	Flame propagation		Glow propagation	Temperature on drums with appearing flame
 Not less than 300 MΩ	 Not allowed	B1	 Not allowed	Lower than the ignition temperature of the methane and air mixture but not more than 450°C
		B2	 Allowed	 No limit






Class B – Flame retardant, multi-ply conveyor belt with the number of plies from 2 to 5 and safety features that meet requirements of the PN-EN ISO 14890 and PN-EN22721 standards in terms of design structure and PN-EN ISO 14973 with regard to electric and fire safety.

Flame retardant conveyors safety class 'C' (C1 and C2)

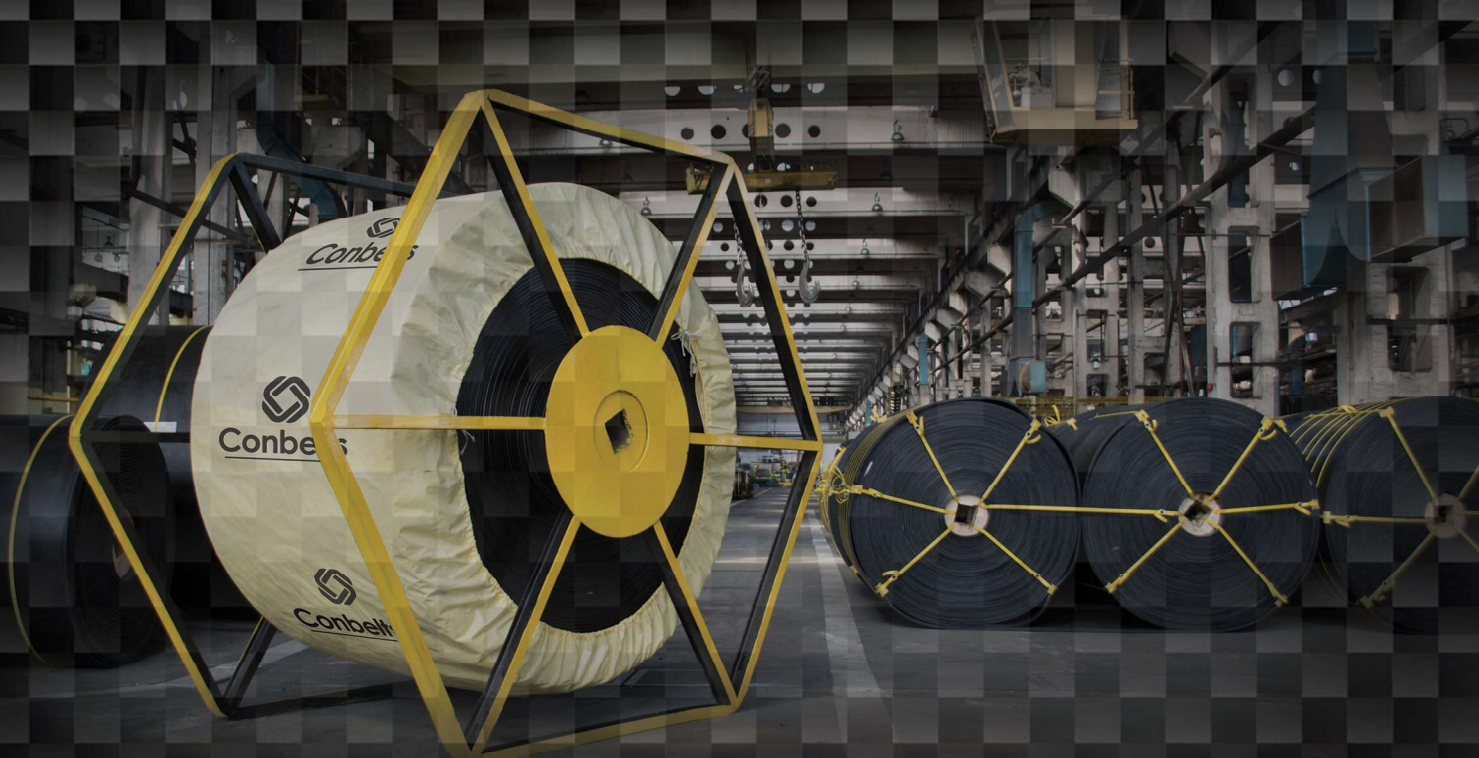
The flame retardant conveyor belts for general applications are dedicated for application in mining workings with the following safety hazards:

- Limited access to the conveyor
- Hindered escape means
- Occurrence of potentially explosive atmospheres
- Potentially flammable materials are conveyed in fines or small chops
- Additional potentially fuels are available to sustain burning, e.g. timber, cloth

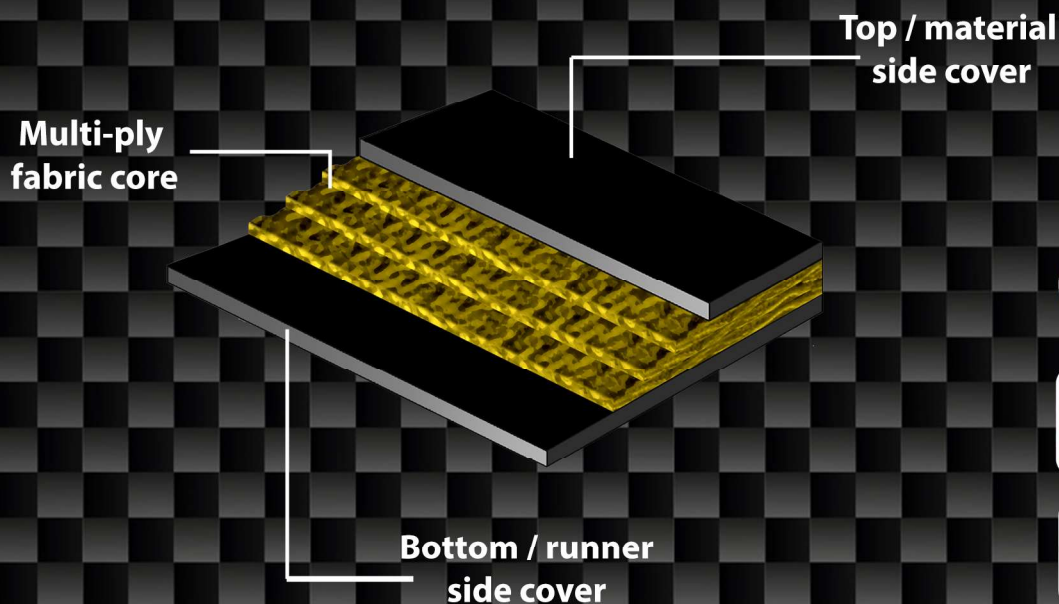
Physical and chemical properties of belts with the 'C-1' safety class operated on conveyors with no additional protection means:

Surface resistance	Flame propagation	Glow propagation		Temperature at friction on drums
 Not less than 300 MΩ	 Not allowed	C1	 Not allowed	Lower than the ignition temperature of the methane and air mixture and the ignition temperature of coal dust but not more than 325°C
		C2	 Allowed	 No limit

Class C – Flame retardant, multi-ply conveyor belt with the number of plies from 2 to 5 and safety features that meet requirements of the PN-EN ISO 14890 and PN-EN22721 standards in terms of design structure and PN-EN ISO 14973 with regard to electric and fire safety.



FIRECon®belts products classified to the 'C' class



Tensile strength [mm]

500

6300

Offered range of belt width [mm]

800

2000

Typical sections of belt length [m]

100

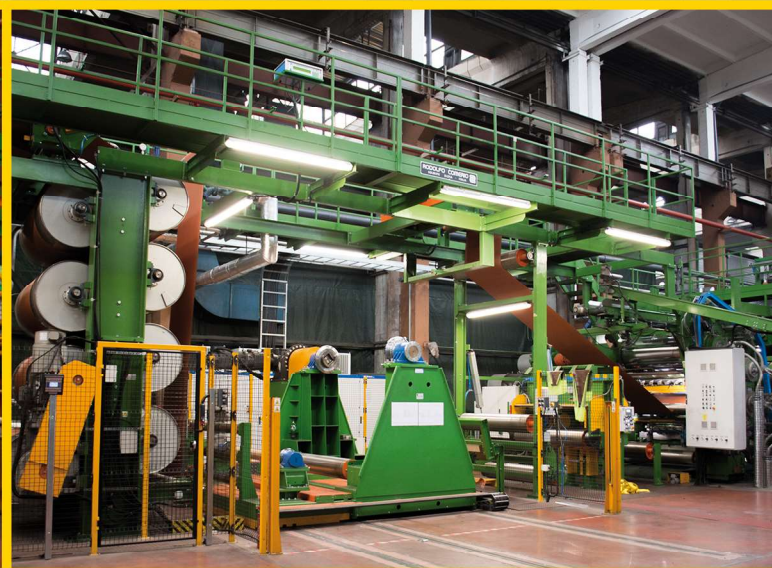
150

200

250

300*

* Real length of belt sections depends on tensile strength of core and thickness of covers



Modern factory in Europe



Modernized Laboratory



New production line



Conbelts S.A
Szyby Rycerskie 4 St.
41-909, Bytom
tel: +48 (32) 397 61 01
www.conbelts.com