FIREConⓇbelts

MULTI-PLIES CONVEYOR BELTS FOR UNDERGROUND APPLICATIONS

Conbelts

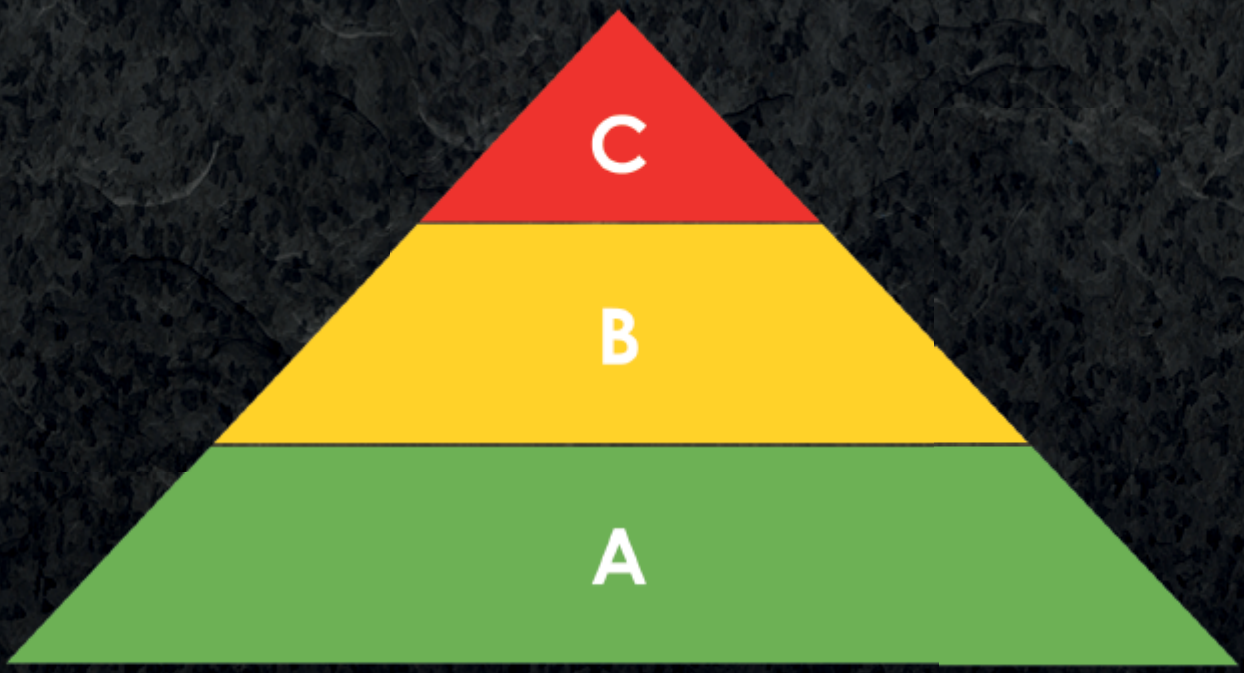

Conbelts

The FIRECon®belts series of conveyor belts represents flame retardant multi-plies products for belt conveyors. The belts are provided with a cloth carcass protected by covers and edge coating made of rubber or a polymeric material. Such belts are dedicated for transportation of bulk, chopped, pelletized and unit pieces of materials on flat or trough-shaped runner assemblies in underground workings.

The FIRECon®belts series of conveyor belts meets relevant requirements of electric and fire safety according to the PN-EN 14973 standard and has been classified to corresponding safety classes applicable to the application areas.

Engineering of the FIRECon®belts series of conveyor belts was based on identification of hazards that may occur during operation of conveyor belts in underground workings with preliminary definition of safety requirements to conveyor belts. Such approach of Conbelts, plc designers guarantees safety levels that are required for operation of belt conveyors.

A, B, C SAFETY CLASSES FOR MINING EQUIPMENT



Flame retardant conveyors belts with the ‘A’ safety class.

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

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 M Om	Not allowed	Allowed	No limit

Class A – Flame retardant, multi-plies 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.

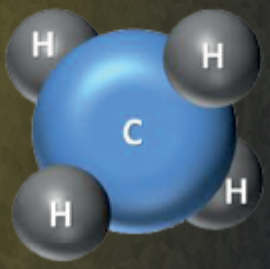
Flame retardant conveyors belts with the ‘B’ (B1 and B2) safety classes

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



Class B – Flame retardant, multi-plies 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.

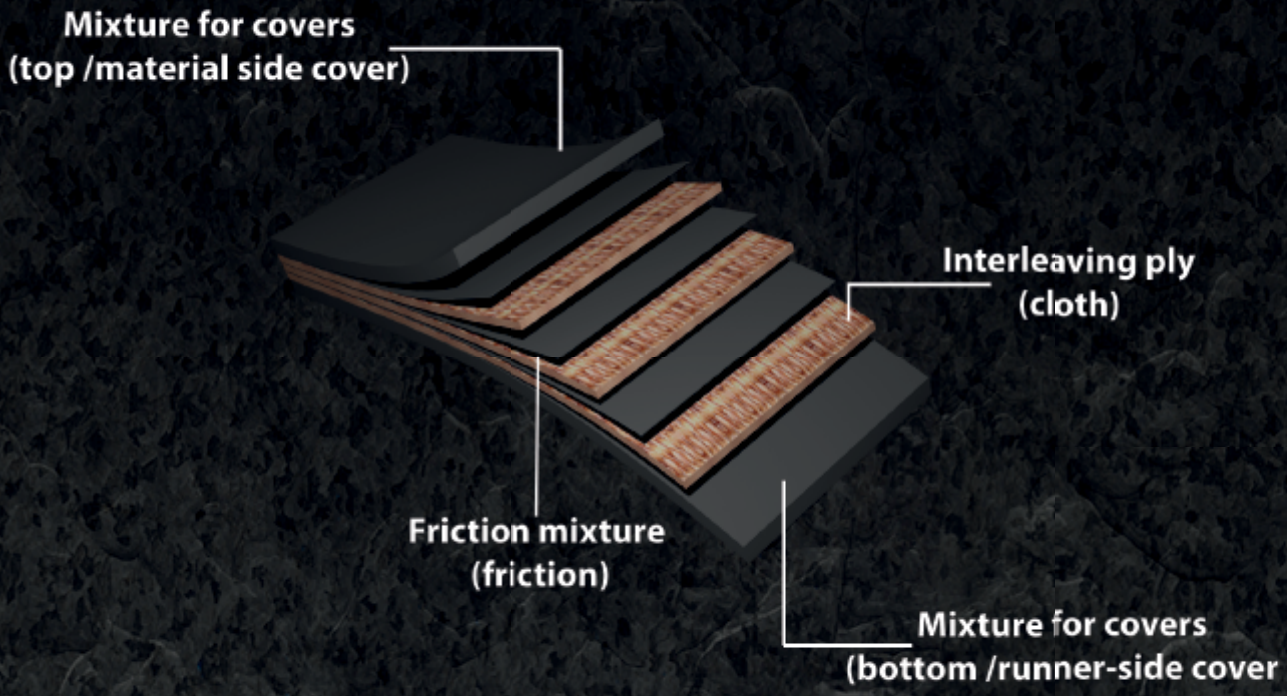
Physical and chemical properties of belts with the 'B-1' safety class operated on conveyors with no additional protection means

Surface resistance	Flame propagation	Glow propagation	Temperature at friction on drums
Not less than 300 M Om	Not allowed	Not allowed	Lower than the ignition temperature of the methane and air mixture but not more than 450°C

Physical and chemical properties of belts with the 'B-2' safety class operated on conveyors with additional protection means

Surface resistance	Flame propagation	Glow propagation	Temperature at friction on drums
Not less than 300 M Om	Not allowed	Allowed	No limit

FIRECon®belts products classified to the 'A' and 'B' classes



Offered range of belt width [mm]

500 — 2000

Typical sections of belt length [m]

100 | 150 | 200 | 250

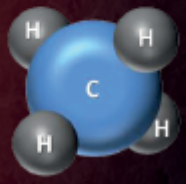
Flame retardant conveyors belts with the ‘C’ (C1 and C2) safety classes

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

Class C – Flame retardant, multi-plies 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.

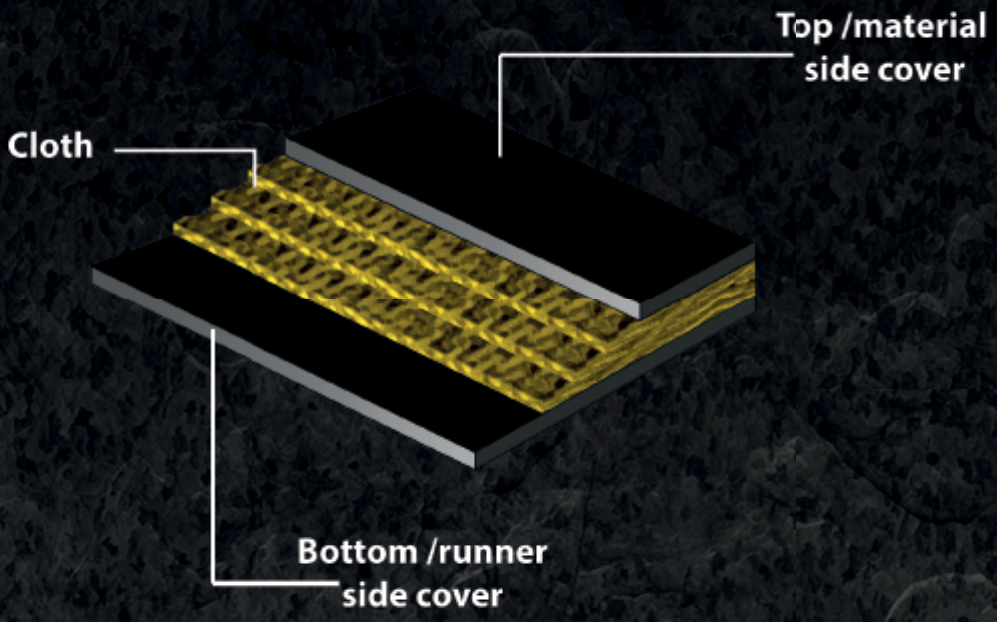
Physical and chemical properties of belts with the 'C-1' safety class operated on conveyors with no additional protection means

Surface resistance	Flame propagation	Glow propagation	Temperature at friction on drums
Not less than 300 M Om	Not allowed	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

Physical and chemical properties of belts with the 'C-2' safety class operated on conveyors with additional protection means

Surface resistance	Flame propagation	Glow propagation	Temperature at friction on drums
Not less than 300 M Om	Not allowed	Allowed	No limit

FIRECon®belts products classified to the 'C' class



Offered range of belt width [mm]

800 — 1400

Typical sections of belt length [m]

100 | 150 | 200 | 250

TÜV NORD
PN-N 18001

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Polska
PN-ISO/IEC 27001

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