

SAFECon®belts

THE SAFEST COMPOSITE BELTS
FOR UNDERGROUND APPLICATIONS

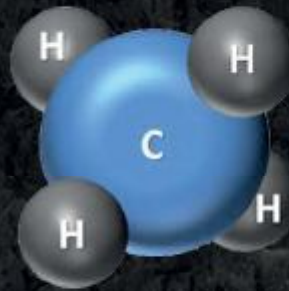


Conbelts



SAFECon®belts are monopoly belts which consist of light composites characterized by high adhesion of covers and core. Application of the latest composite technologies allowed reducing the dimensions and width of belts in relation to other constructions available on the market. This makes **SAFECon®belts** the most energy-saving and effective currently produced conveyor belts.

The belts are intended for use in underground headings with methane fields, where there is a risk of coal dust explosion and the transferred material is flammable.



SAFECon®belts fulfil the requirements of electrical and fire safety compliance as the highest safety class C-1, in accordance with 14973+A1 standard.



Belt strength [kN/m]



Available widths [mm]



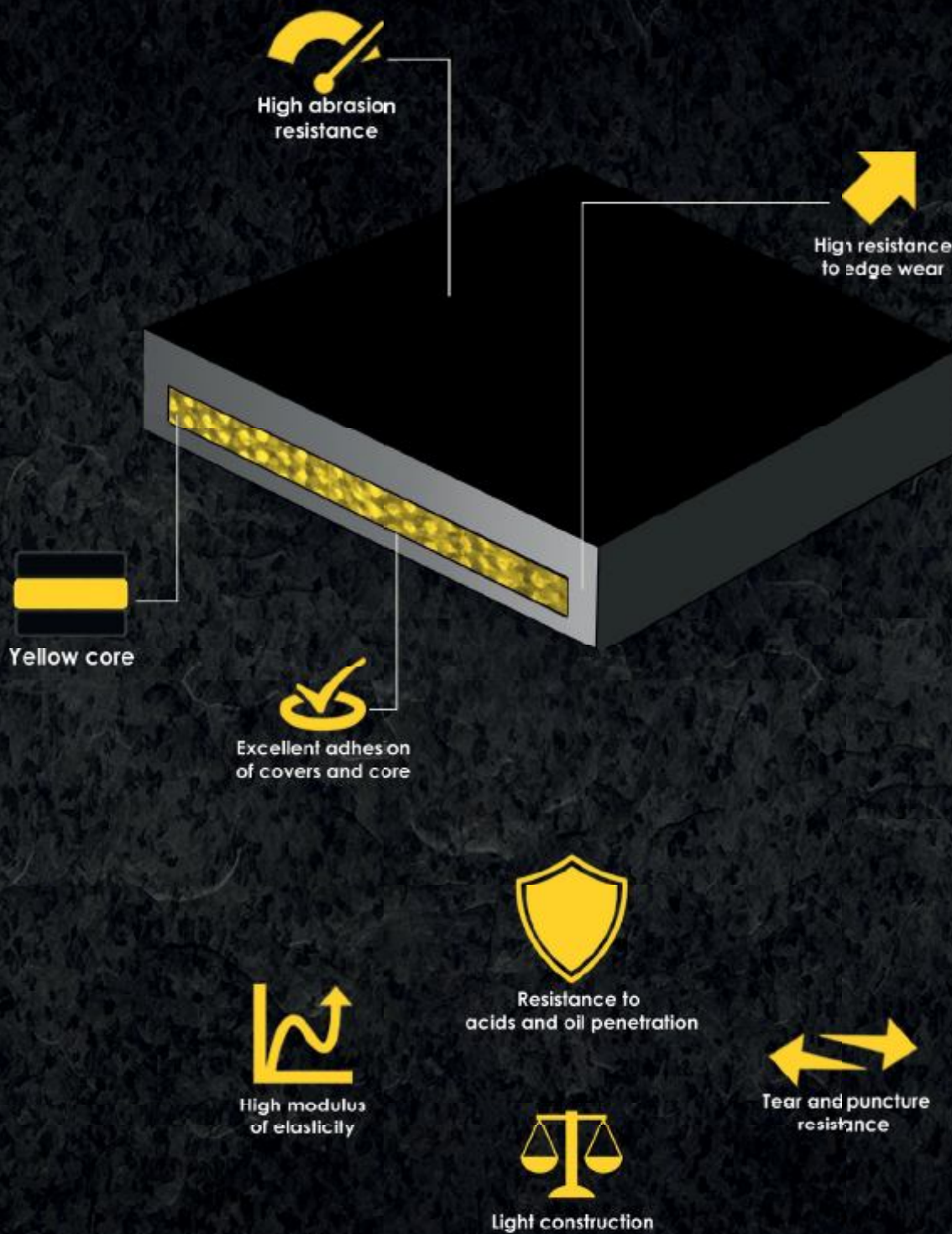
Standard belt segments [m]



Belt splicing methods



DESCRIPTION OF BELT PROPERTIES



In terms of construction the belts meet the requirements of PN-EN 22721 standards and PN-EN ISO 14890 standards.

Covers and edges

Belt covers and edges are made of specially designed elastomers characterized by enhanced abrasion resistance, which allows extending the period of their use. A proper cover elastomer is selected on the basis of individual customer's expectations or through direct counselling. Due to different operating conditions in mines, the total thickness of covers can range from 4 to 15 mm.

Yellow core

SAFECon@belts have a dedicated, solid woven core characterized by enhanced resistance to tear, longitudinal and transverse puncture. The core is impregnated with a special mixture which makes it flame retardant and protects it against the penetration of moisture, contamination, oils and bacteria. Its yellow colour acts as a warning in case of damage or wear of the covers or edges.

Safety standards

250-m belt segments enable the number of splices over the whole length of the conveyor to be considerably reduced, thus maximally limiting the danger of tear. Dedicated splicing materials, identical with the material of the belt for vulcanized splices in yellow are another factor influencing the users' work and facilitating the inspection of splices – it is also a requirement for transporting people by means of belt conveyors.





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Conveyor belts weight

Application of **SAFECon®belts** guarantees a reduced consumption of energy as a result of a reduced belt's total weight. A comparison of the belt's weight with standard covers [kg/m²].



Thickness of conveyor belts

SAFECon®belts have a reduced thickness, which translates into their higher elasticity and energy efficiency. They are easy to install and arrange on flat and concave roller systems, allowing the use of smaller diameters of drums compared to standard constructions.

Comparison of belt thickness with standard covers





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ENERGY SAVING



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