

TECHNICAL DATA SHEET

CONVEYOR BELTS

The conveyor belt is the key component of a belt conveyor. Besides transporting the material, its task is to transmit the longitudinal forces necessary to overcome the resistance of the conveyor's movement. The right choice of belt is crucial for the stability of operation of the whole installation: it allows to limit investment costs, minimises possible problems associated with the operation of the whole conveyor.



Conveyor belts, regardless of their type and purpose, are composed of fixed components consisting of:

- o the core, which is the carrier of strength,
- o rubber covers, protecting the core against damage, affecting the life of the belt.

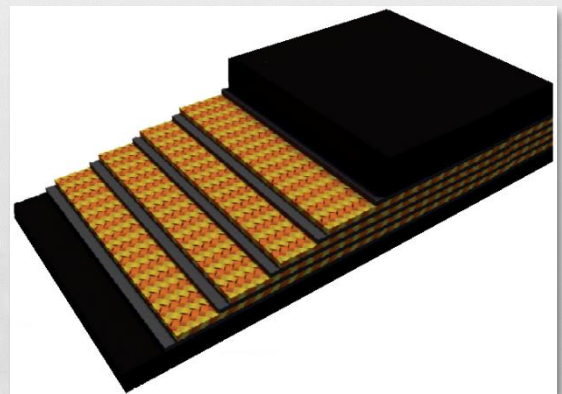
Conveyor belt types:

HARD-FIRMABLE CONVEYOR BELTS GTP: designed for transportation of loose materials in underground mining excavations of flammable (e.g., coal) and non-flammable (metal ores, salt, aggregates) minerals. The belts are made of polyester-polyamide (EP) or polyamide-polyamide (PP) fabric interlayers bonded with flame-retardant core rubber and flame-retardant rubber covers.

GENERAL PURPOSE CONVEYOR BELTS: designed to transport loose materials in conditions where there are no specific requirements related to the working environment and properties of the transported material. Can be used in all industries, including mining of combustible and non-flammable minerals, where there is no fire hazard. The belts consist of polyester-polyamide (EP) or polyamide-polyamide (PP) fabric interlayers connected by a special core rubber and rubber covers with properties adjusted to the type and granulation of the conveyed material.

FLAME-RESISTANT FUEL CONVEYOR BELTS: designed for the transport of loose materials under conditions of increased fire hazard when working on the surface, e.g. transport of coal in power plants, coking plants, coal preparation plants. The belts are composed of polyester-polyamide (EP) or polyamide-polyamide (PP) fabric separators connected rubber core and rubber covers with properties adapted to the type and granulation of the conveyed material.

CONVEYOR BELTS RESISTANT TO 120, 150, 200, OR 280 DEGREES: designed to transport loose materials at elevated temperatures. They can transport the following hot materials: ashes and slag, sinter, moulding sand, limestone, clinker, artificial fertilisers. The belts are made of polyester-polyamide (EP) or polyamide-polyamide (PP) fabric interlayers connected by a special core rubber and rubber covers with increased thermal resistance. According to the target temperature range of the conveyed material, rubbers based on SBR or EPDM and/or EPM are used.



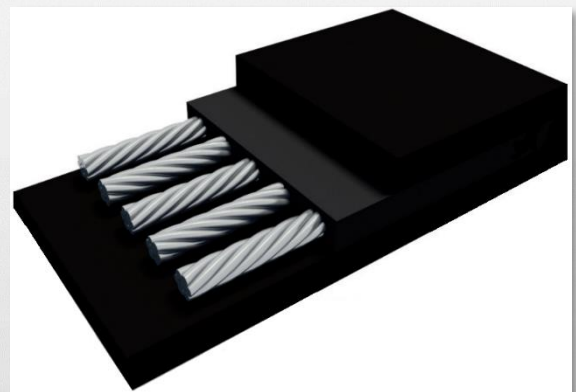
OIL-RESISTANT AND HARDLY-FLAMMABLE, THERMO-OIL-RESISTANT CONVEYOR BELTS: can be used to transport loose materials containing oils of organic or mineral origin. Depending on the temperature of the transported material and hazards occurring locally, it is possible to manufacture oil-resistant belts in versions additionally resistant to increased temperatures of up to 100°C or 150°C or in a flame-retardant version. The belts consist of polyester-polyamide (EP) or polyamide-polyamide (PP) fabric separators connected by a special core rubber and rubber covers characterised by increased oil and/or temperature resistance.

FLAME-RESISTANT GTP-ST CONVEYOR BELTS WITH STEEL CORDS: designed for transporting loose materials in underground excavations of mining plants extracting flammable (e.g., coal) and non-flammable (metal ores, salt, aggregates) minerals. The belts are constructed of a core of longitudinally laid galvanised steel cords vulcanised in a special fire-resistant core rubber and rubber covers. The belts are manufactured with a core of longitudinally laid galvanized steel cords vulcanized in a special flame retardant rubber core and rubber covers.

GENERAL PURPOSE CONVEYOR BELTS WITH STEEL CORDS: are used to transport loose materials in conditions where there are no specific requirements related to the work environment and properties of the transported material. They can be used in all industries, including mining of combustible and non-flammable minerals, where there is no fire hazard. The belts are constructed of a core of longitudinally arranged galvanised steel cords vulcanised in a special core rubber and rubber covers. The belts consist of a core of longitudinally arranged galvanised steel wires vulcanised in a special core rubber and rubber covers.

FLAME-RETARDANT T-ST CONVEYOR BELTS WITH STEEL CABLES: dedicated for the transport of loose materials under conditions of increased fire hazard when working on the surface, such as: transport of coal in power plants, coking plants, processing plants of mines, ports. The belts are constructed of a core of longitudinally laid galvanised steel cords vulcanised in a special flame-retardant core rubber and rubber covers. The belts have a core of longitudinally arranged galvanised steel cords vulcanised in a special flame-retardant rubber core and rubber coverings.

HEAT-RESISTANT STEEL CORD CONVEYOR BELTS: used to transport loose materials with elevated temperatures up to + 150 °C and can operate in an ambient temperature range of -40 [°C] to +60 °C. These belts are used for transportation of hot materials such as: sludge, sinter, moulding sand, limestone, cement clinker, coke, artificial fertilizers. The belts consist of a core of longitudinally arranged galvanised steel cords vulcanised in a special core rubber and rubber cover.



FLAME-RETARDANT 1-CORD GTP PWG CONVEYOR BELTS: suitable for transporting loose materials in underground excavations of mining plants extracting flammable (e.g., coal) and non-flammable (metal ores, salt, aggregates) minerals. They are characterised by high durability of the fabric core and high strength of mechanical connections.

The belts consist of a single fabric spacer (monoply) and solid woven rubber covers. The backing consists of cotton-doped polyester in the longitudinal direction of the tape and cotton-doped polyamide in the transverse direction of the tape (EBPB) impregnated with a special polyvinyl chloride (PVC) compound.

CONVEYOR BELTS WITH METAL MESH: designed for conveying loose materials with a wide granulation of grains: from the finest to large lumps with sharp edges, on long trunk conveyors. Typically, they are used in open-pit mining, quarrying, aggregates mining, aggregates. The belts are made of a core of mesh made of brass wire ropes: longitudinal which determines longitudinal strength of the belt and transverse which determines high resistance of the belts to tearing and impacts. The metal net is vulcanised in a special core rubber and covered with rubber coverings.

Should you have any questions about selecting the right conveyor belt, please contact our specialists at 32 347-26-87 or drop us a line at biuro@pro-hurt.pl.

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