

Power Transmission Belts

TC-10EF



Main industry segments

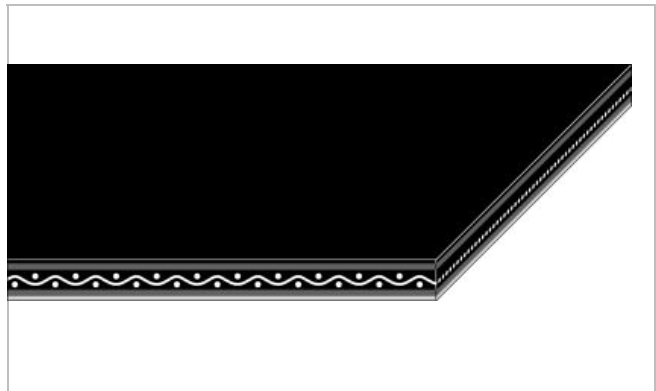
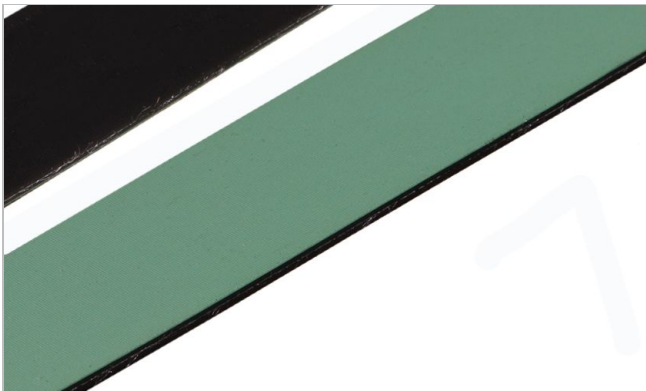
Paper manufacturing and processing, Paper printing and finishing, Yarn processing

Applications

Driving belt, Tangential belt

Special features

Abrasion resistant, Adhesive-free joint, Constant coefficient of friction, Dimensionally stable, Energy saving, Simple and fast joining method



| Product Construction / Design | |
|-------------------------------|-------------------------------------------------------------------------------|
| Pulley side material | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (pulley/cylinder side) |
| Pulley side surface | Fine textile structure |
| Pulley side color | Black |
| Traction layer (material) | Polyester (PET) |
| Number of Fabrics | 1 |
| Opposite side material | Acrylonitrile-Butadiene-Rubber (NBR) as friction cover (whirl side) |
| Opposite side surface | Fine textile structure |
| Opposite side color | Light green |

| Product characteristics | |
|-----------------------------------|---------------------------------|
| Drive determination | Double-sided power transmission |
| Antistatically equipped | Yes |
| Adhesive free joining method | Yes |
| Food suitability, FDA conformance | No |
| Food suitability, EU conformance | No |

| Technical data | | |
|------------------------------------------------------------------------------------------------------|-----------------------|---------------|
| Thickness of belt | 1.8 mm | 0.07 inch |
| Mass of belt (belt weight) | 2.0 kg/m ² | 0.410 lb/sqft |
| Tensile force for 1% elongation (k1% after running in) per unit of width (Habasit standard SOP3-013) | 5.0 N/mm | 29 lbf/in |
| Nominal peripheral force per unit of width | 10 N/mm | 57 lbf/in |
| Min. operating temperature admissible (continuous) | -20 °C | -4 °F |
| Max. operating temperature admissible (continuous) | 70 °C | 158 °F |
| Seamless manufacturing width | 1100 mm | 43.31 inch |

All data are approximate values under standard climatic conditions: 23°C/73°F, 50% relative humidity (DIN 50005/ISO 554).

Power Transmission Belts

TC-10EF



Joining related properties

[Link to JDS:](#)

| Joining method | | Flexproof 10 x 120 |
|-----------------------------------------------|-------------------|-----------------------|
| Pulley diameter (minimum) | mm <i>inch</i> | 25 <i>0.98</i> |
| Pulley diameter minimum with counter flection | mm <i>inch</i> | 25 <i>0.98</i> |

Chemical resistance

Link to 'Chemical resistance information': <https://rims.habasit.com>

Mode of use or conveyance

Power transmission

Calculations

With power transmission belts a calculation at least of the belt width and initial elongation is highly recommended. For this serves the Habasit SeleCalc calculation program. The easiest way is to have belt drives calculated by Habasit representatives.

Recommendation

Follow the Installing and Maintenance Instructions which are supplied with each product delivery

Store spare belts in a cool and dry place and if possible in their original packaging. Protect spare belts from sunlight/UV-radiation/dust/dirt! Check Link for Storage requirements:

["https://tdm.habasit.com/pds/en-us/Storage%20of%20Habasit%20material.pdf"](https://tdm.habasit.com/pds/en-us/Storage%20of%20Habasit%20material.pdf)

Do not force belt on pulleys, Keep belt edges free of any installation/machine contact, This product has not been tested according to ATEX standards (atmospheres with explosion risk - ATEX 95 regulation or EU directive 2014/34/EU) and therefore is subject to user's analysis in the respective environment

| | |
|-------------|---------------------------------------|
| Group | Polyester Power Transmission Belts |
| Sub-Group | TC Polyester Power Transmission Belts |
| Item number | H010102171 |

Disclaimer

Product Application Disclaimer (valid for ALL Habasit products and mentioned on all PDS)

This disclaimer is made by and on behalf of Habasit and its affiliated companies, directors, employees, agents and contractors (hereinafter collectively "HABASIT") with respect to the products referred to herein (the "Products"). SAFETY WARNINGS SHOULD BE READ CAREFULLY AND ANY RECOMMENDED SAFETY PRECAUTIONS BE FOLLOWED STRICTLY! Please refer to the Safety Warnings herein, in the Habasit catalogue as well as installation and operating manuals. All indications / information as to the application, use and performance of the Products are recommendations provided with due diligence and care, but no representations or warranties of any kind are made as to their completeness, accuracy or suitability for a particular purpose. The data provided herein are based on laboratory application with small-scale test equipment, running at standard conditions, and do not necessarily match product performance in industrial use. New knowledge and experience may lead to re-assessments and modifications within a short period of time and without prior notice. EXCEPT AS EXPLICITLY WARRANTED BY HABASIT, WHICH WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, THE PRODUCTS ARE PROVIDED "AS IS". HABASIT DISCLAIMS ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, OR ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE, ALL OF WHICH ARE HEREBY EXCLUDED TO THE EXTENT ALLOWED BY APPLICABLE LAW. BECAUSE CONDITIONS OF USE IN INDUSTRIAL APPLICATION ARE OUTSIDE OF HABASIT'S CONTROL, HABASIT DOES NOT ASSUME ANY LIABILITY CONCERNING THE SUITABILITY AND PROCESS ABILITY OF THE PRODUCTS, INCLUDING INDICATIONS ON PROCESS RESULTS AND OUTPUT.