

Power Transmission Belts

TF-50



Main industry segments

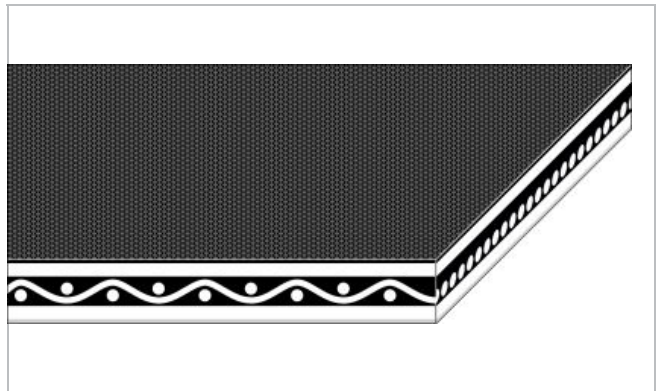
Paper manufacturing and processing, Yarn processing

Applications

Driving belt, Live roller drive belt, Tangential belt

Special features

Abrasion resistant, Dimensionally stable, Energy saving, High modulus of elasticity, High uniformity of belt speed, Low initial tension, Simple and fast joining method



Product Construction / Design	
Pulley side material	Acrylonitrile-Butadiene-Rubber (NBR)
Pulley side surface	Rough structure
Pulley side color	Black
Traction layer (material)	Aramid fabric
Number of Fabrics	1
Opposite side material	Acrylonitrile-Butadiene-Rubber (NBR)
Opposite side surface	Rough structure
Opposite side color	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	3.9 mm	0.15 inch
Mass of belt (belt weight)	4.1 kg/m ²	0.840 lb/sqft
Tensile force for 1% elongation (k1% after running in) per unit of width (Habasit standard SOP3-013)	50 N/mm	286 lbf/in
Nominal peripheral force per unit of width	50 N/mm	286 lbf/in
Min. operating temperature admissible (continuous)	-20 °C	-4 °F
Max. operating temperature admissible (continuous)	65 °C	149 °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).

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Joining related properties

[Link to JDS:](#)

Joining method		Flexproof 10 x 120
Pulley diameter (minimum)	mm <i>inch</i>	125 4.92
Pulley diameter minimum with counter flection	mm <i>inch</i>	125 4.92

Chemical resistance

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

REACH

This product contains more than 0.1% of the following substance(s) of very high concern (SVHC) and is (are) included in the Candidate List. Further information is available from your Habasit representation.

Substance(s): 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol

Mode of use or conveyance

Power transmission, Tangential drive

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

Protect belts from sunlight/UV-radiation/dust and dirt. Store spare belts in a cool and dry place and if possible in their original packaging. 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, Do not twist or fold belt, 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	Aramid Power Transmission Belts
Sub-Group	TF Aramid Power Transmission Belts
Item number	H010100151

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

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