

Heavy Conveyor Belts A90FBS-B



Main industry segments

General conveying

Special features

Low friction conveying side, Temperature variation resistant



Product Construction / Design	
Conveying side material	Polyester fabric (PET) impregnated with polyvinylchloride (PVC)
Conveying side surface	Fabric
Conveying side property	Non-adhesive
Conveying side color	Black
Traction layer (material)	Polyester (PET)
Number of Fabrics	1
Pulley side material	Polyester fabric (PET) impregnated with polyvinylchloride (PVC)
Pulley side surface	Fabric
Pulley side property	Non-adhesive
Pulley side color	Black

Product characteristics	
Antistatically equipped	No
Adhesive free joining method	Yes
Flammability	No specific flammability prevention property
Food suitability, FDA conformance	No
Food suitability, USDA recommendations	No use intended
Food suitability, EU conformance	No

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Technical data		
Thickness of belt	2.7 mm	0.11 inch
Mass of belt (belt weight)	2.7 kg/m ²	0.560 lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	26 N/mm	150 lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	9.0 N/mm	51 lbf/in
Min. operating temperature admissible (continuous)	-23 °C	-10 °F
Max. operating temperature admissible (continuous)	82 °C	180 °F
Coefficient of friction (pulley side / steel driving pulley)	0.30 -	
Coefficient of friction (pulley side / driving pulley with friction cover)	0.40 -	
Coefficient of friction (pulley side / pickled steel slider bed)	0.35 -	
Coefficient of friction (pulley side / phenolic resin slider bed)	0.35 -	
Coefficient of friction (pulley side / stainless steel slider bed)	0.35 -	
Seamless manufacturing width	1829 mm	72.00 inch
On request other seamless manufacturing width	1524 mm	60 inch

Joining related properties

Joining method	
Flexproof 10 x 80	Master joining method for standard applications

[Link to JDS:](#)

Joining method		Flexproof 10 x 80
Pulley diameter (minimum)	mm inch	51 2.00
Pulley diameter minimum with counter flection	mm inch	51 2.00
Admissible tensile force per unit of width	N/mm lbf/in	24 137
Slider bed suitable		Yes
Carrying rollers suitable		Yes
Troughed installation suitable		No
Powerturns / curved installations		No
Knife-edge (nosebar) suitable		No
Metal detector suitable		Yes

All data are approximate values under standard climatic conditions: 23°C/73°F, 50% relative humidity (DIN 50005/ISO 554). Limited representative testing based on a standard configuration is carried out to estimate minimum pulley diameters. Please contact Habasit for specific guidance regarding non-standard applications, including, but not exclusively, when profiles or cleats are used, or if the belt working temperature is close to the limits listed in this document.

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Chemical resistance

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

Mode of use or conveyance

Horizontal

Calculations

For most applications calculation is not required. Should you still need a calculation: please ask Habasit.

Recommendation

Do not go below initial elongation (epsilon) ~ 0.5%, Install the slack belt and tension until running perfectly under the full belt load

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)

No danger and limitation

Group	Woven Belts
Sub-Group	Allveyor General Purpose Belts
Item number	H250000644

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