

Light Conveyor Belts NHZ-8ESBV-O1E3



Main industry segments

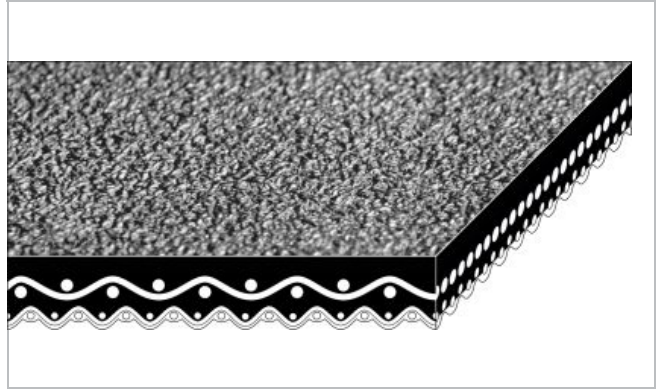
Airport, Letter sorting

Applications

Induction belt, Powerturn belt

Special features

Energy saving, Low friction running side, Powerturn suitable



Product Construction / Design	
Conveying side material	Polyvinylchloride (PVC)
Conveying side surface	Orange peel
Conveying side property	Non-adhesive
Conveying side color	Black
Traction layer (material)	Polyester (PET)
Number of Fabrics	2
Pulley side material	Polyester (PET)
Pulley side surface	Impregnated fabric
Pulley side property	Non-adhesive
Pulley side color	Light green

Product characteristics	
Antistatically equipped	Yes
Adhesive free joining method	Yes
Flammability	In accordance with ISO 340
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	2.5 mm	0.10 inch
Mass of belt (belt weight)	3.0 kg/m ²	0.614 lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	8.5 N/mm	49 lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	5.5 N/mm	31 lbf/in
Min. operating temperature admissible (continuous)	0 °C	32 °F
Max. operating temperature admissible (continuous)	70 °C	158 °F
Coefficient of friction (pulley side / steel driving pulley)	0.10 -	
Coefficient of friction (pulley side / driving pulley with friction cover)	0.25 -	
Coefficient of friction (pulley side / pickled steel slider bed)	0.15 -	
Coefficient of friction (pulley side / phenolic resin slider bed)	0.15 -	
Coefficient of friction (pulley side / stainless steel slider bed)	0.15 -	
Seamless manufacturing width	3000 mm	118.11 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 <i>inch</i>	60 <i>2.36</i>
Pulley diameter minimum with counter flexion	mm <i>inch</i>	60 <i>2.36</i>
Admissible tensile force per unit of width	N/mm <i>lbf/in</i>	13 <i>74</i>
Admissible tensile force per unit of width at max. operating temperature	N/mm <i>lbf/in</i>	7.5 <i>43</i>
Slider bed suitable		Yes
Carrying rollers suitable		Yes
Troughed installation suitable		Yes
Powerturns / curved installations		Yes
Knife-edge (nosebar) suitable		No
Low noise applications		No
Metal detector suitable		No

ISO 340 test certificate

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>

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); Triphenyl phosphate

Mode of use or conveyance

Omnidirectional, Troughed

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) ~ 0.3%

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)

In case the pulley diameter used in an application is 80 mm or more, a minimum temperature of -10 °C is applicable, 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	PVC Belts
Sub-Group	Flame Retardant Belts
Item number	H100066283

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