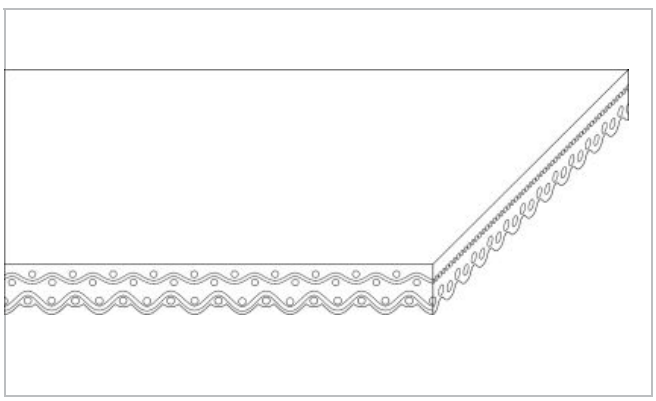
Food Belts
WVT-176

habasit

Main industry segments
Primary food packaging

Applications
Food processing/conveying belt

Special features
Excellent release, High temperature resistant, Wear resistant



Product Construction / Design	
Conveying side material	Silicone (SI)
Conveying side surface	Fine textile structure
Conveying side property	Adhesive
Conveying side color	White
Traction layer (material)	Aramid fabric
Number of Fabrics	2
Pulley side material	Polyester (PET)
Pulley side surface	Impregnated fabric
Pulley side property	Non-adhesive
Pulley side color	White

Product characteristics	
Antistatically equipped	No
Adhesive free joining method	Yes
Food suitability, FDA conformance	Yes - acc. to 21CFR parts 170 - 199. Details/restrictions see Habasit food compliance declaration.
Food suitability, EU conformance	Yes - acc. to Regulation (EC) No. 1935/2004 and other relevant food contact legislation. Details/restrictions see Habasit food compliance declaration.
Other conformance/approval	Complies with BfR recommendation (German federal institute for risk assessment).

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Technical data				
Thickness of belt	1.6	mm	*0.06*	*inch*
Mass of belt (belt weight)	1.6	kg/m²	*0.328*	*lb/sqft*
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	7.5	N/mm	*43*	*lbf/in*
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	4.8	N/mm	*27*	*lbf/in*
Min. operating temperature admissible (continuous)	-30	°C	*-22*	*°F*
Max. operating temperature admissible (continuous)	100	°C	*212*	*°F*
Coefficient of friction (pulley side / steel driving pulley)	0.10	-		
Coefficient of friction (pulley side / driving pulley with friction cover)	0.35	-		
Coefficient of friction (pulley side / pickled steel slider bed)	0.20	-		
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	1500	mm	*59.06*	*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
Nosebar radius (minimum)	mm *inch*	7 *0.276*
Pulley diameter (minimum)	mm *inch*	20 *0.79*
Pulley diameter minimum with counter flection	mm *inch*	25 *0.98*
Admissible tensile force per unit of width	N/mm *lbf/in*	12 *69*
Admissible tensile force per unit of width at max. operating temperature	N/mm *lbf/in*	2.4 *14*
Slider bed suitable		Yes
Carrying rollers suitable		Yes
Troughed installation suitable		No
Powerturns / curved installations		No
Nosebar suitable		Yes
Metal detector suitable		Yes

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

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Chemical resistance
Link to 'Chemical resistance information': http://www.habasit.com/en/chemical-resistance.htm

Mode of use or conveyance
Declined, Horizontal, Inclined

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%

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.

Group	Silicone Belts
Sub-Group	Wear Resistant Belts
Item number	H700002176