## Food Belts FNB-5EQ



## Main industry segments

Baked snacks, Biscuit and Crackers, Bread, Chocolate, Convenience food, Frozen food, Pasta, Pastry, Pizza, Primary food packaging, Ready meals

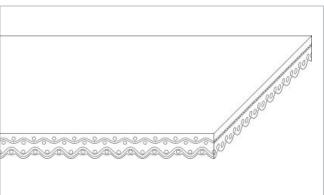
### **Applications**

Accumulation belt, Diverting belt, Food processing/conveying belt, Metal detector belt, Packaging belt, Transfer belt

### **Special features**

Easy release





Product Construction / Design	
Conveying side material	Thermoplastic polyurethane (TPU)
Conveying side surface	Matt
Conveying side property	Non-adhesive
Conveying side color	White
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	White

Product characteristics	
Antistatically equipped	No
Adhesive free joining method	Yes
Flammability	No specific flammability prevention property
Food suitability, FDA conformance	Yes - Check Document of Compliance (DoC) in our Portal
Food suitability, USDA recommendations	No use intended
Food suitability, EU conformance	Yes - Check Document of Compliance (DoC) in our Portal
Other conformance/approval	Japanese Food Regulation (MHLW Notification No. 370)
	Halal certified

# Food Belts FNB-5EQ



Technical data				
Thickness of belt	1.30	mm	0.05	inch
Mass of belt (belt weight)	1.5	kg/m²	0.307	lb/sqft
Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)	6.5	N/mm	37	lbf/in
Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181)	4.6	N/mm	26	lbf/in
Min. operating temperature admissible (continuous)	-15	°C	5	°F
Max. operating temperature admissible (continuous)	80	°C	176	°F
Coefficient of friction (pulley side / steel driving pulley)	0.15	-		
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)	0.25	-		
Coefficient of friction (pulley side / stainless steel slider bed)	0.15	-		
Seamless manufacturing width	4000	mm	157.48	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
Knife-edge (nosebar) radius	mm	4
(minimum)	inch	0.157
Pulley diameter (minimum)	mm	15
	inch	0.59
Pulley diameter minimum with	mm	20
counter flection	inch	0.79
Admissible tensile force per unit of	N/mm	11
width	lbf/in	63
Admissible tensile force per unit of	N/mm	7.0
width at max. operating	lbf/in	40
temperature		
Slider bed suitable		Yes
Carrying rollers suitable		Yes
Troughed installation suitable		No
Powerturns / curved installations		No
Low noise applications		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.

## Food Belts FNB-5FO



#### **Chemical resistance**

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

#### Mode of use or conveyance

Accumulation, 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) ~ 0.3%, 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"

Not suitable for wet operations combined with increased temperatures, 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 **TPU Belts** 

Sub-Group General Purpose Belts

Item number H010100190

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