

# Food Belts

## FNI-12E



### Main industry segments

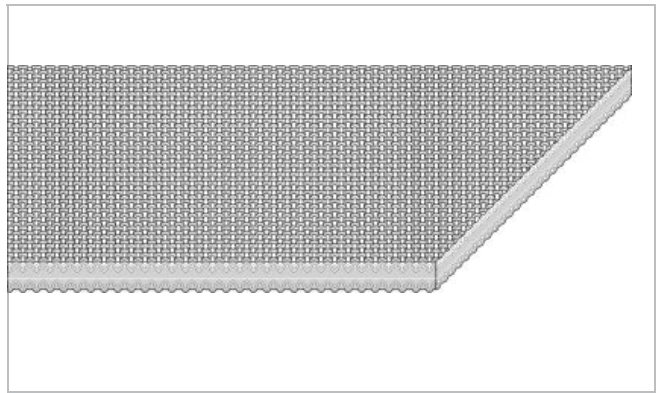
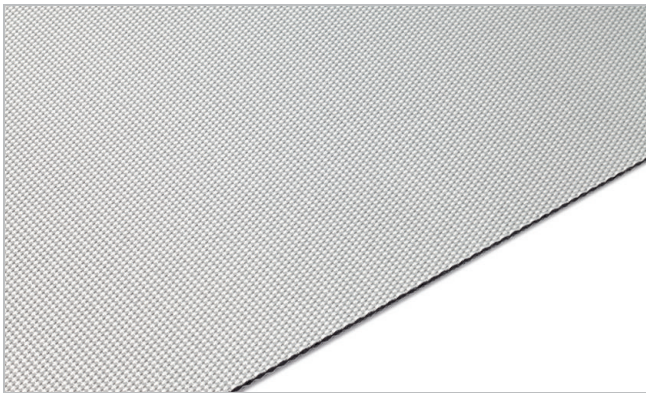
Chemical industry, Distribution centers, Industrial automation, Primary food packaging

### Applications

Food processing/conveying belt, Packaging belt, Transfer belt

### Special features

Easy release, Low friction running side, No stick-slip effect



| Product Construction / Design |                    |
|-------------------------------|--------------------|
| Conveying side material       | Polyester (PET)    |
| Conveying side surface        | Impregnated fabric |
| Conveying side property       | Non-adhesive       |
| Conveying side color          | Off-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             | Off-white          |

| Product characteristics                |  |
|--|--|
| Antistatically equipped                | Yes  |
| Adhesive free joining method           | Ja   |
| 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  |

| Technical data  |                       |               |
|---|-----------------------|---------------|
| Thickness of belt   | 1.6 mm                | 0.06 tommer   |
| Mass of belt (belt weight)  | 1.7 kg/m <sup>2</sup> | 0.338 lb/sqft |
| Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)                                  | 18 N/mm               | 103 lbf/in    |
| Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181) | 12 N/mm               | 69 lbf/in     |
| Min. operating temperature admissible (continuous)  | -30 °C                | -22 °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 tommer |

### Joining related properties

| Joining method    |   |
|-------------------|---|
| Flexproof 20 x 80 | Master joining method for standard applications |

[Link to JDS:](#)

| Joining method   |                       | Flexproof 20 x 80 |
|--|-----------------------|-------------------|
| Pulley diameter (minimum)  | mm<br><i>tommer</i>   | 50<br>1.97        |
| Pulley diameter minimum with counter flection                            | mm<br><i>tommer</i>   | 50<br>1.97        |
| Admissible tensile force per unit of width                               | N/mm<br><i>lbf/in</i> | 16<br>91          |
| Admissible tensile force per unit of width at max. operating temperature | N/mm<br><i>lbf/in</i> | 7.0<br>40         |
| Slider bed suitable  |                       | Yes               |
| Carrying rollers suitable  |                       | Yes               |
| Troughed installation suitable   |                       | No                |
| Powerturns / curved installations  |                       | No                |
| Knife-edge (nosebar) suitable  |                       | No                |
| Low noise applications   |                       | No                |
| Metal detector suitable  |                       | No                |

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.

## Chemical resistance

Link til informasjon om kemisk resistens <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

For details consult 'Storage and handling requirements for belts and machine tapes' or contact Habasit, 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.

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      | Fabric Surface Belts |
| Sub-Group  | Impregnated Belts    |
| Del nummer | H010100253           |

## Ansvarsfraskrivelse

### Ansvarsfraskrivelse for produktanvendelse (gælder for ALLE Habasit produkter og nævnt på alle produktdatablade)

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