

Processing Belts

NAY-50EHCV



Main industry segments

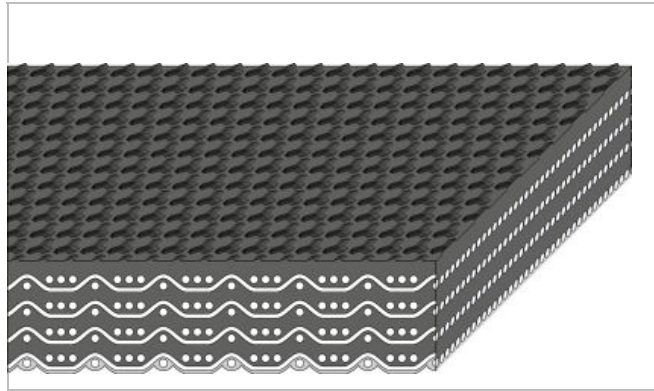
Marble and stone

Applications

Calibrating machines, Engineered stone processing, Polishing machines

Special features

Abrasion resistant, High strength, Impact resistant, Water resistant



| Product Construction / Design | |
|-------------------------------|-------------------------|
| Conveying side material | Polyvinylchloride (PVC) |
| Conveying side surface | Y embossing |
| Conveying side property | Adhesive |
| Conveying side color | Blue |
| Traction layer (material) | Polyester (PET) |
| Number of Fabrics | 4 |
| Pulley side material | Polyester (PET) |
| Pulley side surface | Impregnated fabric |
| Pulley side property | Non-adhesive |
| Pulley side color | Yellow |

| 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 | 9.0 mm | 0.35 inch |
| Mass of belt (belt weight) | 10.0 kg/m ² | 2.048 lb/sqft |
| Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155) | 48 N/mm | 274 lbf/in |
| Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181) | 26 N/mm | 148 lbf/in |
| Min. operating temperature admissible (continuous) | -10 °C | 14 °F |
| Max. operating temperature admissible (continuous) | 70 °C | 158 °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) | 0.20 - | |
| Coefficient of friction (pulley side / stainless steel slider bed) | 0.15 - | |
| Seamless manufacturing width | 2200 mm | 86.61 inch |

Joining related properties

| Joining method | |
|----------------|---|
| Step joint | Master joining method for standard applications |

[Link to JDS:](#)

| Joining method | | Step joint |
|--|----------------|--------------|
| Pulley diameter (minimum) | mm inch | 350 13.78 |
| Pulley diameter minimum with counter flection | mm inch | 400 15.75 |
| Admissible tensile force per unit of width | N/mm lbf/in | 65 371 |
| Admissible tensile force per unit of width at max. operating temperature | N/mm lbf/in | 60 343 |
| 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, Reciprocating/ reverse

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. 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)

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 | Marble Belts |
| Sub-Group | - |
| Item number | H100066248 |

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