

# Processing Belts NAS-40EHAV-S2



## Main industry segments

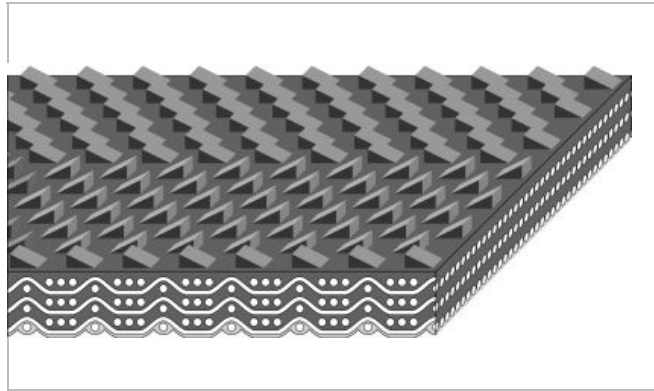
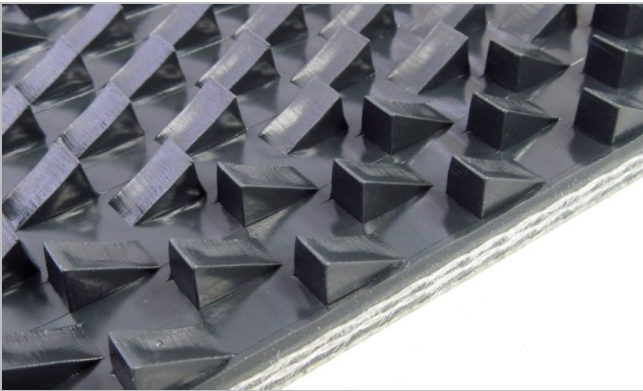
Marble and stone

## Applications

Polishing machines

## Special features

Abrasion resistant, Absorption of shock loads, High strength, Water resistant



| Product Construction / Design |                                |
|-------------------------------|--------------------------------|
| Conveying side material       | Polyvinylchloride (PVC)        |
| Conveying side surface        | Alternating sawtooth structure |
| Conveying side property       | Adhesive                       |
| Conveying side color          | Anthracite                     |
| Traction layer (material)     | Polyester (PET)                |
| Number of Fabrics             | 3                              |
| 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   | 12.0 | mm                | 0.47 inch     |
| Mass of belt (belt weight)  | 9.5  | kg/m <sup>2</sup> | 1.946 lb/sqft |
| Tensile force for 1% elongation (k1% static) per unit of width (Habasit standard SOP3-155)                                  | 44   | N/mm              | 251 lbf/in    |
| Tensile force for 1% elongation after relaxation (k1% relaxed) per unit of width (Habasit Standard SOP3-155 / EN ISO 21181) | 23   | N/mm              | 131 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)   | 0.15 | -                 |               |
| 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<br>inch     | 300<br>11.81 |
| Pulley diameter minimum with counter flection                            | mm<br>inch     | 300<br>11.81 |
| Admissible tensile force per unit of width                               | N/mm<br>lbf/in | 58<br>331    |
| Admissible tensile force per unit of width at max. operating temperature | N/mm<br>lbf/in | 58<br>331    |
| 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  |                | 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, 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. 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 | H100066377   |

## Disclaimer

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