



# TPU BELTS

THERMOPLASTIC POLYURETHANE

## SUPER FLEX™

TRULY ENDLESS BELTS DESIGNED FOR DEMANDING DRIVES AND CONVEYING APPLICATIONS

Using advanced materials science and the latest belt technology, Gates designed a series of truly endless timing belts with helically wound steel cord reinforcements delivering high-tensile strength in custom lengths ranging from 1.5m to 22.9m.

Gates® SUPER Flex™ belts are designed to fulfill our customers' demand for high flexibility with all Gates backings and profile options to create customized conveying and transportation solutions.

Next to the standard SUPER Flex™ belt, Gates developed belts to meet specific demands required for low temperature applications down to  $-30^{\circ}\text{C}$  and also, antistatic belts for explosive atmospheres and static electricity sensitive applications.

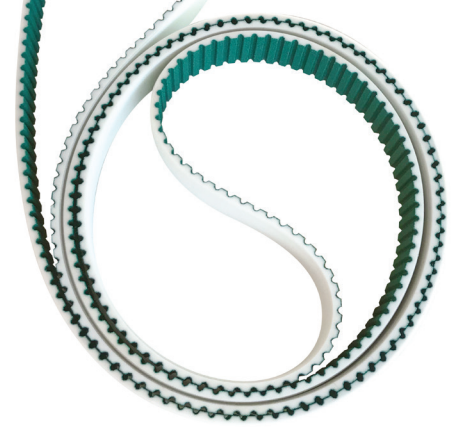
The Gates® SUPER Flex™ belt program combines the durability of Gates quality products with optimal lead times and a reliable partnership, making it the number one choice for polyurethane synchronous belts. You can confidently rely upon the Gates® SUPER Flex™ for high power transmission drives as well as heavy load conveying applications.

### FEATURES + BENEFITS

- Extensive range of sizes and widths
- Any length between 1,5 and 22,9m can be manufactured
- Various types of steel reinforcement for wide fields of applications
- Optional Nylon fabric on tooth side
- SUPER Flex™ POLAR belts are ideal for applications working in temperature down to  $-30^{\circ}\text{C}$
- SUPER Flex™ VOLT belts are static conductive (ISO 9563) for use in the conditions described in the directive 2014/34/EU-ATEX
- Over 3,000 designs for welded profiles
- Engineering support for customized designs



## SUPER FLEX™



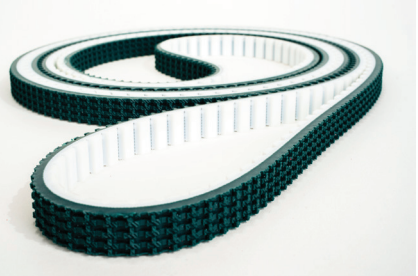
### PRODUCT SPECIFICATIONS

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| <b>WIDTH</b>              | 10mm – 170mm                                                                |
| <b>LENGTH</b>             | 1500mm – 22900mm (depending on pitch)                                       |
| <b>HARDNESS</b>           | 90° Shore A                                                                 |
| <b>CORDS</b>              | Steel (standard), high-strength steel, high-flexible steel, stainless steel |
| <b>SPECIAL PROCESSING</b> | Grinding, milling, punching and many more available on request              |

#### SUPER FLEX™ STANDARD

SERVE DEMANDING DRIVES AND CONVEYING APPLICATIONS

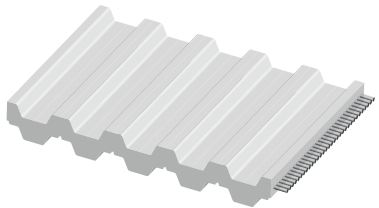
|                          |                                                                       |
|--------------------------|-----------------------------------------------------------------------|
| <b>PITCH</b>             | H, T5, T10, T20, AT5, AT10, AT20, ATL20, HTD5M, HTDL5M, HTD8M, HTD14M |
| <b>TEMPERATURE RANGE</b> | -5° to +70°C                                                          |
| <b>FABRICS</b>           | Optional polyamid on teeth - NT                                       |
| <b>COLOR</b>             | White                                                                 |



#### SUPER FLEX™ DL

DOUBLE-SIDED FLEXBELT

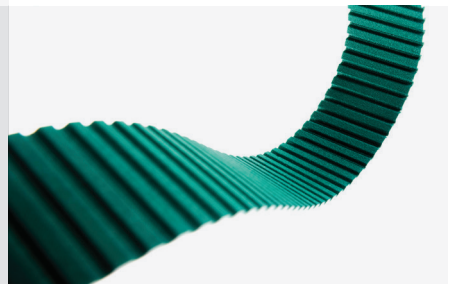
|                          |                                              |
|--------------------------|----------------------------------------------|
| <b>PITCH</b>             | T5DL, T10DL, AT5DL, AT10DL, HTD5MDL, HTD8MDL |
| <b>TEMPERATURE RANGE</b> | -5° to +70°C                                 |
| <b>FABRICS</b>           | Optional polyamid on teeth - NT              |
| <b>COLOR</b>             | White                                        |



#### SUPER FLEX™ POLAR

WORKS IN APPLICATIONS AT LOW TEMPERATURE DOWN TO -30°C

|                          |                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------|
| <b>PITCH</b>             | H, T5, T10, T20, AT5, AT10, AT20, ATL20, HTD5M, HTDL5M, HTD8M, HTD14M T5DL, T10DL, AT5DL, AT10DL, T20DL |
| <b>TEMPERATURE RANGE</b> | -30°C to +5°C                                                                                           |
| <b>FABRICS</b>           | Optional polyamid on teeth - NT                                                                         |
| <b>COLOR</b>             | White                                                                                                   |



#### SUPER FLEX™ VOLT

DESIGNED TO WORK IN EQUIPMENT INTENDED FOR USE IN EXPLOSIVE ATMOSPHERES WHETHER ELECTRICAL OR MECHANICAL, INCLUDING PROTECTIVE SYSTEMS

|                           |                                                                                  |
|---------------------------|----------------------------------------------------------------------------------|
| <b>PITCH</b>              | T5, T10, AT5, AT10, T20, T20DL, T5DL, T10DL, AT5DL, AT10DL, T20DL 1600 - 12000mm |
| <b>LENGTH</b>             | 1600 – 12000mm                                                                   |
| <b>TEMPERATURE RANGE</b>  | -5°C to +70°C                                                                    |
| <b>FABRICS</b>            | Optional polyamid on teeth - NT                                                  |
| <b>CONTACT RESISTANCE</b> | >10mΩ                                                                            |
| <b>COLOR</b>              | Black                                                                            |



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