



# TPU BELTS

THERMOPLASTIC POLYURETHANE

## SUPER FLEX™ POLAR

DEMANDING DRIVES – CONVEYING AT LOW TEMPERATURE

Our advancements in materials science, design engineering and processing technologies allow Gates to deliver highly flexible endless timing belts for applications operating at temperatures down to  $-30^{\circ}\text{C}$ .

Gates® SUPER Flex™ POLAR belts are truly endless extruded belts with helically wound steel cords designed for high flexibility with all Gates backing and profile options to create customized conveying and transportation solutions – including Nylon fabric for tooth side to reduce friction for improved efficiency and quieter operation.

Gates® SUPER Flex™ POLAR belts are the number one choice in polyurethane synchronous belts for high power transmission drives and heavy load conveying applications. Gates is a trusted drive partner delivering superior quality and reliability with optimal lead times worldwide.

### FEATURES + BENEFITS

- Ideal for applications working in temperatures down to  $-30^{\circ}\text{C}$
- Extensive range of sizes & widths – any length from 1.5 – 22.5m
- Optional nylon fabric on tooth side reduces friction for improved efficiency & quieter operation
- Over 30 backing material options
- 3,000+ welded profile designs
- Engineering support for custom designs





**DRIVEN BY POSSIBILITY™**

# SUPER FLEX™ POLAR

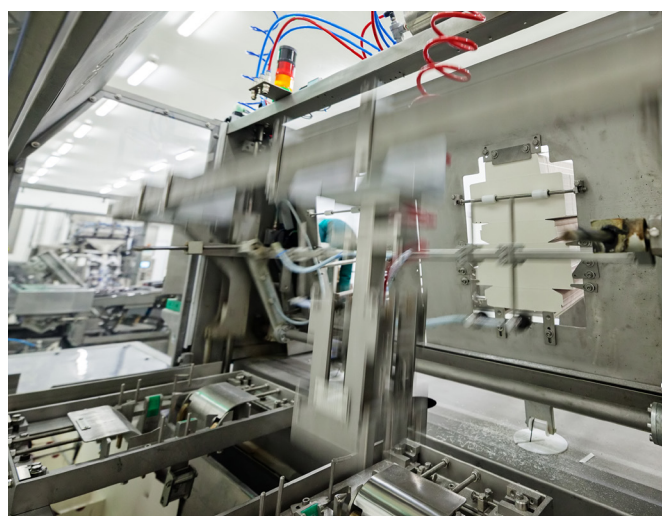
## FABRICATION CAPABILITIES

PITCHES	H / T5 / T20 / AT5 / AT10 / ATL10 / ATL20 / HTD5 / HTDL5 / HTD8 / HTD14
WIDTH	10mm – 170mm
LENGTH	1500mm – 22500mm
HARDNESS	90° Shore A
TEMPERATURE RANGE STANDARD	-5° to +70° C
TEMPERATURE RANGE LOW TEMP	-30° to +50° C
MINIMUM PULLEY DIAMETER	Minimum diameters of pulleys and idlers +50% at temperatures below -5° C
CORDS	Steel (standard), high-strength steel, high-flexible steel, stainless steel
FABRICS	Polyamide on teeth - NT
BACKINGS	Over 30 different backings available
PROFILES	Over 3000 designs for welded profile available, special profiles on request
SPECIAL PROCESSING	Grinding, milling, punching and many more available on request

## ATTRIBUTES + APPLICATIONS

Gates® SUPER Flex™ POLAR belts serve demanding drives and conveying applications in the most diverse industries and markets:

- Deep freeze storage systems
- Cold ambient temperature
- Outdoor equipment and technical installations
- Offshore plants
- Glass and ceramics industry
- Packaging industry
- Intra-logistics
- Wood, paper and furniture industry
- Textile industry
- Machine tools



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