


**BELT CHARACTERISTICS**

- Truly endless polyurethane timing belt with steel tension cords
- Tooth profile according to ISO 17396
- Metric pitch 10 mm
- Tooth profile and dimension are optimised to guarantee uniform load distribution and minimum deformation under load
- High resistance and low stretch steel cords to guarantee high stability and low elongation
- Reduced polygonal effect with reduced vibration & noise
- Transmissible power up to 70 kW
- Double sided tooth available (on request for special cords)
- **Dual tothing available from 1500 mm**
- **HPL cord execution available**

**STANDARD TOLERANCES**

WIDTH TOLERANCE: ±0,5 [mm]  
 THICKNESS TOLERANCE: ±0,2 [mm]

**TECHNICAL DATA**
**Standard steel cord**

| Belt width b [mm]          | 16   | 25   | 32   | 50   | 75    | 100   | 150   |
|----------------------------|------|------|------|------|-------|-------|-------|
| Allowable tensile load [N] | 2695 | 4165 | 5390 | 8330 | 12740 | 16905 | 25480 |
| Weight [kg/m]              | 0,09 | 0,14 | 0,18 | 0,29 | 0,43  | 0,57  | 0,86  |

Other widths are available on request

**Specialties**

| Belt width b [mm]           |                | 16   | 25   | 32   | 50    | 75    | 100   | 150   |
|-----------------------------|----------------|------|------|------|-------|-------|-------|-------|
| <b>ARAMID CORD</b>          | $F_{Tzul}$ [N] | 1980 | 3080 | 4180 | 6380  | 9680  | 12980 | 19580 |
| <b>STAINLESS STEEL</b>      | $F_{Tzul}$ [N] | 1980 | 3060 | 3960 | 6120  | 9360  | 12420 | 18720 |
| <b>HFE High Flexibility</b> | $F_{Tzul}$ [N] | 2200 | 3400 | 4400 | 6800  | 10400 | 13800 | 20800 |
| <b>HPL High Performance</b> | $F_{Tzul}$ [N] | 3360 | 5760 | 7200 | 11520 | 17280 | 23040 | 34560 |

**Tooth shear strength**

| rpm [min <sup>-1</sup> ] | 0      | 20     | 40     | 60     | 80    | 100    | 200    | 300    | 400    | 500    | 600    | 700    | 800    | 900   | 1000  | 1100   |
|--------------------------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| $M_{spez}$ [Ncm/cm]      | 14,096 | 13,856 | 13,633 | 13,424 | 13,23 | 13,049 | 12,312 | 11,951 | 11,457 | 11,025 | 10,644 | 10,305 | 10,000 | 9,723 | 9,469 | 9,235  |
| $P_{spez}$ [W/cm]        | 0,000  | 0,290  | 0,571  | 0,843  | 1,108 | 1,366  | 2,578  | 3,754  | 4,799  | 5,772  | 6,687  | 7,553  | 8,377  | 9,163 | 9,915 | 10,637 |

  

| rpm [min <sup>-1</sup> ] | 1200   | 1300   | 1400   | 1440   | 1500   | 1600   | 1700   | 1800   | 1900   | 2000   | 2200   | 2400   | 2600   | 2800   | 3000   | 3200   |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| $M_{spez}$ [Ncm/cm]      | 9,018  | 8,815  | 8,626  | 8,553  | 8,447  | 8,279  | 8,119  | 7,968  | 7,824  | 7,686  | 7,429  | 7,191  | 6,971  | 6,766  | 6,573  | 6,393  |
| $P_{spez}$ [W/cm]        | 11,331 | 12,000 | 12,645 | 12,897 | 13,268 | 13,871 | 14,454 | 15,018 | 15,566 | 16,097 | 17,113 | 18,072 | 18,978 | 19,836 | 20,649 | 21,420 |

  

| rpm [min <sup>-1</sup> ] | 3400   | 3600   | 3800   | 4000   | 4500   | 5000   | 5500   | 6000   | 6500   | 7000   | 7500   | 8000   | 8500   | 9000   | 9500   | 10000  |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| $M_{spez}$ [Ncm/cm]      | 6,222  | 6,060  | 5,907  | 5,761  | 5,424  | 5,120  | 4,844  | 4,591  | 4,357  | 4,139  | 3,936  | 3,746  | 3,566  | 3,397  | 3,236  | 3,084  |
| $P_{spez}$ [W/cm]        | 22,152 | 22,846 | 23,504 | 24,130 | 25,557 | 26,807 | 27,897 | 28,841 | 29,652 | 30,339 | 30,912 | 31,377 | 31,742 | 32,012 | 32,193 | 32,289 |

**Flexibility**

| Minimum pulley number of teeth and minimum idler diameter | <br>Drive without reverse bending |                 | <br>Drive with reverse bending |                 |
|---|-----------------------------------|-----------------|--------------------------------|-----------------|
|   | $z_{min}$                         | idler $d_{min}$ | $z_{min}$                      | idler $d_{min}$ |
| <b>STANDARD</b>   | 15                                | 50 mm           | 25                             | 120 mm          |
| <b>ARAMID</b>   | 15                                | 50 mm           | 20                             | 120 mm          |
| <b>STAINLESS</b>  | 20                                | 70 mm           | 40                             | 120 mm          |
| <b>HFE</b>  | 12                                | 50 mm           | 20                             | 80 mm           |
| <b>HPL</b>  | 25                                | 80 mm           | 25                             | 150 mm          |

**Min. available length**

| Max width | Execution |           |
|-----------|-----------|-----------|
|           | Standard  | PAZ       |
| 100 mm    | ≥ 800 mm  | ≥ 900 mm  |
| 150 mm    | ≥ 1600 mm | ≥ 1800 mm |