



BELT CHARACTERISTICS

- Polyurethane timing belt with steel tension cords
- Tooth profile according to ISO 17396
- Metric pitch 2.5 mm
- Ideal for drives where high belt flexibility is requested
- Widely used for conveying, linear drive and light power transmission applications

STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 0,3$ [mm]
 LENGTH TOLERANCE: $\pm 0,5$ [mm/m]
 THICKNESS TOLERANCE: $\pm 0,15$ [mm]

TECHNICAL DATA

Standard steel cord

Belt width b [mm]		4	6	10	20	50	100
Allowable tensile load	F_{Tzul} [N]*	100	190	320	700	1860	3780
Breaking load	F_{Br} [N]	375	750	1250	2750	7250	14750
Specific spring rate	C_{spez} [N]	24000	47500	80000	175000	465000	945000
Weight	[kg/m]	0,004	0,007	0,011	0,022	0,055	0,110

Other widths are available on request

Specialties

Belt width b [mm]		4	6	10	20	50	100
HFE High Flexibility	F_{Tzul} [N]*	110	215	360	790	2090	4250
	F_{Br} [N]	450	900	1500	3300	8700	17700

Tooth shear strength

rpm	0	20	40	60	80	100	200	300	400	500	600	700	800	900	1000	1100
F_{Uspez} [N/cm]	9,10	8,77	8,51	8,30	8,13	8,00	7,39	7,00	6,71	6,48	6,29	6,13	5,99	5,86	5,75	5,64

rpm	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
F_{Uspez} [N/cm]	5,55	5,46	5,38	5,35	5,31	5,24	5,17	5,11	5,05	4,99	4,88	4,79	4,70	4,62	4,54	4,47

rpm	3400	3600	3800	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
F_{Uspez} [N/cm]	4,40	4,34	4,28	4,22	4,09	3,97	3,86	3,76	3,67	3,59	3,51	3,44	3,37	3,30	3,24	3,18

Flexibility

Minimum pulley number of teeth and minimum idler diameter	 Drive without reverse bending		 Drive with reverse bending	
	z_{min}	idler d_{min}	z_{min}	idler d_{min}
STANDARD	15	15 mm	18	18 mm
HFE	10	15 mm	18	15 mm

Elatech® V Joined informations

Allowable tensile load of joined belt is 50% of M - open end [*]