Technical datasheet

# **PU Linear AT10 Steel NB**

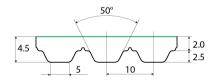
Article code: TBPU000069



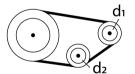
Productgroup	Timing belts, PU	_inear					
Industry segment	General industry;	Container & pa	ackaging; Wood: Panel board				
Main product feature	Low friction back	side, Positive d	drive, Wear resistant				
Belt construction							
Tension member		steel					
Material	body	Polyurethar	ne				
Surface	tooth side	Polyurethar	ne				
	back side	Polyamide	fabric				
Characteristics							
Food Grade (FG)	no						
Antistatic (AS)	no						
Oil & Fat resistance	yes						
echnical data							
Tooth	profile			AT10			
	pitch			10	mm	0.39	in.
Hardness body material	ISO 868				Shore		
Belt thickness				92A	Shore		
Seit unckness	total				mm	0.18	in.
Belt weight	total			4.5			in. Ibs/ft²
Belt weight	total tooth side to stee	1	dynamic	4.5	mm kg/m²		
Belt weight Coefficient of friction		1	dynamic from / to	4.5 6.4	mm kg/m²		lbs/ft²
	tooth side to stee			4.5 6.4 0,5	mm kg/m²	1.31	lbs/ft²
Belt weight Coefficient of friction Operating temperature	tooth side to stee continuous		from / to	4.5 6.4 0,5 -10 / 80	mm kg/m² °C	1.31	lbs/ft² °F
Belt weight Coefficient of friction Operating temperature	tooth side to stee continuous		from / to number of teeth, t1	4.5 6.4 0,5 -10 / 80 15 45.9	mm kg/m² °C	1.31 14 / 176	lbs/ft² °F in.
Belt weight Coefficient of friction Operating temperature	tooth side to stee continuous	er flexing	from / to number of teeth, t1 d1	4.5 6.4 0,5 -10 / 80 15 45.9	mm kg/m² °C mm	1.31 14 / 176 1.81	lbs/ft² °F in.
Belt weight Coefficient of friction Operating temperature	tooth side to stee continuous A) without counte	er flexing	from / to number of teeth, t1 d1 d2	4.5 6.4 0,5 -10 / 80 15 45.9 50	mm kg/m <sup>2</sup> °C mm mm	1.31 14 / 176 1.81	lbs/ft² °F in. in.
Belt weight Coefficient of friction Operating temperature	tooth side to stee continuous A) without counte	er flexing	from / to number of teeth, t1 d1 d2 number of teeth, t1	4.5 6.4 0,5 -10 / 80 15 45.9 50 25 77.73	mm kg/m <sup>2</sup> °C mm mm	1.31 14 / 176 1.81 1.97	lbs/ft <sup>2</sup> °F in. in. in.
Belt weight Coefficient of friction Operating temperature	tooth side to stee continuous A) without counte	er flexing	from / to number of teeth, t1 d1 d2 number of teeth, t1 d1	4.5 6.4 0,5 -10 / 80 15 45.9 50 25 77.73 120	mm kg/m <sup>2</sup> °C mm mm mm	1.31 14 / 176 1.81 1.97 3.06	lbs/ft <sup>2</sup> °F in. in. in. in.
Belt weight Coefficient of friction Operating temperature Minimum pulley diameter	tooth side to stee continuous A) without counte B) with counter fl	er flexing	from / to number of teeth, t1 d1 d2 number of teeth, t1 d1	4.5 6.4 0,5 -10 / 80 15 45.9 50 25 77.73 120 150	mm kg/m <sup>2</sup> °C mm mm mm mm	1.31 14 / 176 1.81 1.97 3.06 4.72	lbs/ft <sup>2</sup> °F in. in. in. in. in.

#### **Reference** images

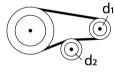
#### Side view



### A) without counter flexing







# Fabrication

This information on the fabrication options is general, please contact Ammeraal Beltech for the specific fabrication possibilities of the timing belt of your choice.

Open end, prepared splice, spliced endless with mechanical fastener or a pin joint fastener.

Cleats welded or mechanically attached, metal teeth, guides welded or glued.

Covers can be welded, glued, coated or vulkanized onto the back side of the timing belt.

Thermoplastic covers can be embossed. Perforations, lateral and logitudinal slots, lateral and longitudinal profiles.

## Additional Information

Tooth profile according to standard: metric ISO 17396, imperial ISO 5296-1, curvilinear ISO 13050, depending on the belt type. This sheet contains typical values, which apply to a temperature of approx. 20 °C (68 °F), unless otherwise stated, individual data may differ. Consult our specialists for further information like technical calculations. Instructions regarding joining, storage & maintenance and tracking & tensioning.

Standard belt width [mm]	Allow. tensile load Linear open end & Torque [N]	Allow. tensile load Linear welded endless [N]	Spring force [N]
10	1125	562.5	330000
16	1850	925	560000
25	3750	1875	95200
32	5000	2500	1232000
50	7500	3750	1960000
75	12000	6000	2968000
100.1	16000	8000	3920000

Speed rpm [1/min]	Specific power [W/mm]	
	Specific tooth force [N/mm]	opeenie power [10/ mm]
0	7.57	0
25	7.423	0.031
50	7.306	0.061
75	7.18	0.09
100	7.078	0.118
150	6.895	0.172
200	6.713	0.224
300	6.418	0.321
400	6.153	0.41
500	5.921	0.493
750	5.452	0.682
1000	5.085	0.848
1250	4.789	0.998
1500	4.536	1.134
1750	4.32	1.26
2000	4.128	1.376
3000	3.53	1.765
4000	3.094	2.063

Standard

Because of continuous development, the presented data is subject to alteration. This data replaces that included in previous publications. Ammeraal Beltech excludes any liability for the incorrect use of the above stated information. Subject to the general terms and conditions of sale and delivery, as applied by its operating companies, are all activities performed and services rendered by Ammeraal Beltech.