

F.N. Sheppard & Co.

BELTING SPECIALTIES

BELT SECTION		XL	L	H	H-HF	H-XW	XH	T5	AT5	ATL5	T10	T10-HF	T10-XW	AT10	ATL10	T20	AT20	ATL20	GMT3	HTD5	HTD8	HTD14	STD5	STD8	Flat8	Flat12	
Pitch (inch and metric)		0.200	0.375	0.500	0.500	0.500	0.875	5 mm	5 mm	5 mm	10 mm	10 mm	10 mm	10 mm	10 mm	20 mm	20 mm	20 mm	3 mm	5 mm	8 mm	14 mm	8 mm	8 mm	N/A	N/A	
Ultimate Tensile Strength per inch or 25mm belt width	Steel	lb/in	730	1330	1570	2380	N/A	3160	730	1440	2380	1570	2380	N/A	3160	5030	3160	5030	7310	N/A	2380	3160	4670	2380	3160	1570	1570
		N/25mm	3250	5920	6980	10590	N/A	14060	3250	6410	10590	6980	10590	N/A	14060	22380	14060	22380	32520	N/A	10590	14060	20770	10590	14060	6980	6980
	KEVLAR®	lb/in	1360	1710	1820	N/A	760	3450	1360	1710	N/A	1820	N/A	760	3450	N/A	3450	4410	N/A	420	2050	3450	4090	2050	3450	1820	2050
		N/25mm	6050	7610	8100	N/A	3380	15350	6050	7610	N/A	8100	N/A	3380	15350	N/A	15350	19620	N/A	1870	9120	15350	18190	9120	15350	8100	9120
Max Allowable Belt Tension (T1all) per inch or 25mm belt width (Safety factor >4)	Open end	lb/in	180	330	390	590	N/A	790	180	360	590	390	590	N/A	790	1250	790	1100	1820	N/A	510	790	1020	510	790	390	390
		N/25mm	800	1470	1730	2620	N/A	3510	800	1600	2620	1730	2620	N/A	3510	5560	3510	4890	8100	N/A	2270	3510	4540	2270	3510	1730	1730
	Welded	lb/in	140	190	140	240	100	380	140	210	220	240	240	100	380	380	380	450	450	50	240	380	450	240	380	240	240
		N/25mm	620	850	1070	1070	440	1690	620	930	980	1070	1070	440	1690	1690	1690	2000	2000	220	1070	1690	2000	1070	1690	1070	1070
Allowable Effective Tension for the belt teeth Teall (15 and more teeth in mesh)	Open End	lb/in	180	360	440	440	N/A	880	200	290	290	380	380	N/A	580	580	710	1220	1220	N/A	230	420	770	220	410	0	N/A
		N/25mm	800	1600	1960	1960	N/A	3910	890	1290	1290	1690	1690	N/A	2580	2580	3160	5430	5430	N/A	1020	1870	3430	980	1820	0	N/A
	Welded	lb/in	130	270	330	330	330	660	150	210	210	280	280	280	430	430	530	910	910	N/A	160	270	440	150	260	0	N/A
		N/25mm	580	1200	1470	1470	1470	2940	670	930	930	1250	1250	1250	1910	1910	2360	4050	4050	N/A	710	1200	1960	670	1160	0	N/A
Specific Belt Weight Wb	Steel	lb/ft/in	0.036	0.059	0.066	0.072	N/A	0.18	0.037	0.055	0.062	0.074	0.079	N/A	0.096	0.144	0.125	0.169	0.185	N/A	0.07	0.101	0.182	0.067	0.087	0.057	0.078
		Kg/m/cm	0.021	0.035	0.039	0.042	N/A	0.105	0.022	0.032	0.036	0.043	0.046	N/A	0.056	0.067	0.073	0.099	0.108	N/A	0.041	0.059	0.107	0.039	0.051	0.033	0.046
	KEVLAR®	lb/ft/in	0.033	0.052	0.055	N/A	0.056	0.155	0.033	0.046	N/A	0.062	N/A	0.066	0.071	N/A	0.101	0.124	N/A	N/A	0.05	0.08	0.143	0.05	0.074	0.045	0.066
		Kg/m/c	0.019	0.03	0.032	N/A	0.033	0.091	0.02	0.027	N/A	0.036	N/A	0.039	0.042	N/A	0.059	0.073	N/A	N/A	0.029	0.047	0.084	0.029	0.043	0.026	0.039
Specific Belt Stiffness Csp	Steel	lb/in	47950	92800	109000	133600	N/A	213600	47950	100500	133600	109000	133600	N/A	213600	334600	213600	334600	440000	N/A	133600	213600	294400	133600	213600	10900	109000
		N/mm	8400	16255	19085	23400	N/A	37410	8400	17605	23400	19085	23400	N/A	37410	58600	37410	58600	77050	N/A	23400	37410	51560	23400	37410	19085	19085
	KEVLAR®	lb/in	52250	69100	60700	N/A	30350	100000	52250	N/A	N/A	60700	N/A	30350	N/A	N/A	N/A	100000	N/A	N/A	60700	100000	86500	60700	100000	60700	60700
		N/mm	9155	12100	10635	N/A	5300	17500	9155	N/A	N/A	10635	N/A	5300	N/A	N/A	N/A	17500	N/A	N/A	10635	17500	15150	10635	17500	10635	10635
Minimum No. of Pulley Teeth zmin		10	10	14	12	14	18	10	15	15	14	12	16	15	25	15	18	30	20	14	20	28	14	20	2.0"	2.0"	
Minimum Pitch Diameter (inch or mm)		.64"	1.19"	2.23"	1.91"	2.23"	5.01"	16 mm	24 mm	24 mm	45 mm	38 mm	51 mm	48 mm	80 mm	96 mm	115 mm	191 mm	19 mm	22 mm	51 mm	125 mm	22 mm	51 mm	3.0"	3.0"	
Minimum Diameter of Tensioning Idler Running on Back of Belt	in	1.125	2.375	3.125	2.375	3.125	5.875	1.125	2.375	2.375	3.125	2.375	3.125	4.75	5.875	4.75	7.125	9.875	1.125	2.375	4.75	7.875	2.375	4.75	3.125	3.125	
	mm	30	60	80	60	80	150	30	60	60	80	60	80	120	150	120	180	250	30	60	120	200	60	120	80	80	
Available in FDA/USDA Construction (FDA/USDA 85 Shore A Urethane)		Yes	Yes	Yes	-	Yes	-	Yes	-	-	Yes	-	Yes	-	-	-	-	-	Yes	-	-	-	-	Yes	Yes	Yes	
Minimum Welded Belt Length		17"	17"	18"	18"	30"	42"	450mm	450mm	450mm	450mm	450mm	840mm	600mm	600mm	1000mm	1000mm	1000mm	850mm	450mm	456mm	456mm	450mm	456mm			
Standard Roll Lengths		200'	200'	200'	200'	200'	100'	50M or 100M	50M or 100M	50M or 100M	50M or 100M	50M or 100M	50M or 100M	50M or 100M	50M or 100M	50M or 100M	30M	30M	60M	30M	50M or 100M	50M or 100M	50M or 100M	50M or 100M			

Temperature Range : 23° F to +158° F	<p>Most belts are available with Nylon Fabric on either or both sides.</p> <p>- For Nylon on tooth side, specify "NT"</p> <p>- For Nylon on the back side, specify "NB"</p> <p>- For Nylon on both sides, specify "NTB"</p>	Coefficient of Friction:	
Standard: 92 Shore A Urethane		Urethane vs. Steel (dry):	0.5 to 0.7
FDA: 85 Shore A Compliant Urethane		Urethane vs. Aluminum (dry):	0.5 to 0.6
		Urethane vs. UHMW (dry):	0.2 to 0.4
		Nylon vs. Steel (dry):	0.2 to 0.4
		Nylon vs. UHMW (dry):	0.1 to 0.3
ATL designates stronger cord construction			
H-HF and T10-HF are high flex reinforcement cords			
H-XW & T10-XW designates belt wider than 6", and up to 18"			

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1261 Jamike Drive, Erlanger, KY 41018 • 800-733-5773 • beltinfo@fnsheppard.com