

Thread Construction & A&E Brand	Application	Tex Size	Old A&E Tkt #	Metric	Far East	Cotton Count	Avg.* Strength	Ndl Sz.** Min. Sz.
Cotton Wrapped Poly Core <i>D-Core™</i>	Light Weight	T-24	XF-100	M120	M120	46/2	2.3	60 /8
		T-35	MF-70	M100	M100	33/2	3.1	75 /10
	Medium Weight	T-40	M-50	M75	M75	28/2	3.6	80 /12
		T-50	MH-40	M60	M60	33/3	4.6	90 /14
	Heavy Weight	T-60	T-60	M50	M50	18/2	7.3	100 /16
		T-80	T-80H	M40	M40	15/2	7.5	110 /18
		T-105	T-100	M30	M30	12/2	8.6	120 /20
	Ex-Heavy Weight	T-120		M25	M25	15/3	11.4	140 /22
		T-135	XH-16	M20	M20	12/3	11.7	150 /24
		T-150	XXH-12	M18	M18	15/4	15.1	150 /24
T-180			M14	M14	12/4		160/26	
	T-240		M12	M12	10/4		200/36	
Poly Wrapped Poly Core <i>Perma Core™</i>	Ex-Light Weight	T-18	XXF-140	M180	M180	59/2	2.1	55 /7
	Light Weight	T-24	XF-100	M120	M120	45/2	2.7	60 /8
		T-30	MF-70	M100	M100	35/2	3.5	70 /9
	Medium Weight	T-40	M-50	M75	M75	29/2	4.5	80 /12
		T-50	H-30	M60	M60	20/2	6.6	90 /14
	Heavy Weight	T-60	T-60	M50	M50	18/2	7.7	100 /16
		T-80	T-80H	M36	M36	15/2	8.9	110 /18
		T-105	T-100	M30	M30	12/2	10.6	120 /20
	Ex-Heavy Weight	T-120	T-120	M25	M25	15/3	13.5	140 /22
		T-135		M20	M20	12/3	16.0	150 /24
T-150			M18	M18	15/4	18.0	150 /24	
T-180			M14	M14	12/4		160/26	
	T-240		M12	M12	10/4		200/36	
Spun Poly <i>Perma Spun™, Excell™, Bravo™</i>	Ex-Light Weight	T-18		M180	602	60/2	1.4	55 /7
		T-21		M140	803	80/3	1.8	60 /8
		T-21	100/2	M140	502	53/2	1.7	60 /8
	Light Weight	T-27	70/2	M100		43/2	2.1	65 /9
		T-27		M100	603	60/3	2.2	65 /9
		T-27	50/3	M100	402	40/2	2.1	65 /9
	Medium Weight	T-40	50/2	M75		29/2	3.3	80 /12
		T-45	40/3	M75	403	40/3	3.6	80 /12
		T-60		M50		20/2	4.7	100 /16
	Heavy Weight	T-60	30/3	M50	604	29/3	4.8	100 /16
T-70		24/3	M40		24/3	6.3	110 /18	
T-90		20/3	M36	606/203	20/3	7.6	120 /20	
Ex-Heavy Weight	T-105	16/3	M30		16/3	9.6	140 /22	
	T-120		M25	204	20/4	10.6	140 /22	
	T-135		M20	T22	12/3	11.1	150 /28	
	T-270		M11	Gimp	20/9		NA	
Air Entangled Poly <i>Magic™</i>	Light Weight	T-21	100	M180	M180		2.0	60 /8
		T-27	70	M100	M100		2.3	65 /9
	Medium Weight	T-40	50	M75	M75		3.9	80 /12
		T-45		M75	M75		4.9	80 /12
	Heavy Weight	T-60	30	M50	M50		7.2	100 /16
T-90			M30	M30		9.5	120 /20	
T-135			M20	M20		14.7	150 /24	
Thread Construction & A&E Brand	Application	Tex Size	USA	Metric	Hong Kong	Denier Size	Avg.* Strength	Ndl Sz.** Min. Sz.
Textured Poly <i>Wildcat Plus™</i>	Light Weight	T-18	T-18	M180	715	150	1.7	55/7
		T-24	T-24	M120	720	200	2.1	60 /8
	Medium Weight	T-35	T-35	M110	730	300	3.3	70 /10
		T-50	T-50	M75		450	4.5	90 /14
	Heavy Weight	T-70	T-70	M40	760	600	6.8	100 /16
T-105		T-105			900	7.8	140 /22	

Thread Construction & A&E Brand	<u>Tex Size</u>	<u>Denier Construction</u>	<u>Finish</u> BT- Bonded SST – Soft & Stretch STX – Not Stretched	<u>Metric Size</u>	<u>Old Tkt.</u>	<u>US Gov. Tkt</u> VT295E & VT285E & Mil-DIL32072	<u>Avg.* Strength</u>	<u>Ndl Sz.** Min. Sz.</u>
CF Twisted Multifilament Nylon <i>Anefil Nylon</i>	T-14	60d X 2	SST	200			1.2	55 / 7
	T-16	70d X 2	BT, SST, STX	180		OO	1.7	55 / 7
	T-18	60d X 3	SST	160			2.5	55 / 78
	T-21	70d X 3	BT, SST, STX	140		A	2.8	60 / 9
	T-30	100d X 3	BT, SST, STX	100	33	AA	4.7	70 / 10
	T-45	210d X 2	BT, SST, STX	60	46	B/2	7.3	80 / 12
	T-70	210d X 3	BT, SST, STX	40	69	E	11	100 / 16
	T-90	210d X 4	BT, SST, STX	30	92	F	14	120 / 20
	T-105	315d X 3	BT	25			21	140 / 22
	T-135	420d X 3	BT, SST, STX	20	138	FF	24	150 / 28
	T-210	630d X 3	BT, SST	15	207	#3	31	160 / 28
	T-270	840d X 3	BT, SST	10	277	#4	43	180 / 34
	T-350	840d X 4	BT, SST	8	346	#5	58	260 / 46
	T-400	1260d X 3	BT, SST	7	415	#6	73	350 / 70
	T-500	1050d X 4	BT, SST	6	462	#7	77	
T-600	1680d X 3	BT, SST	5	554	#8	83		
T-700	1890d X 3	BT, SST	4	693	#10	92		
Thread Construction & A&E Brand	<u>Tex Size</u>	<u>Denier Construction</u>	<u>Finish</u> BMX = Bonded Monocord	<u>Metric Size</u>	<u>Old Tkt.</u>	<u>US Gov. Tkt</u> VT295E	<u>Avg.* Strength</u>	<u>Ndl Sz.** Min. Sz.</u>
CF Monocord Nylon <i>Anecord Nylon</i>	T-16	140d X 1	BMX	180			1.7	55 / 7
	T-18	170d X 1	BMX	160		OO	2.5	55 / 7
	T-27	235d X 1	BMX	140		A	3.4	65 / 9
	T-30	280d X 1	BMX	100			4.7	70 / 10
	T-35	315d X 1	BMX			AA	4.5	75 / 11
	T-45	420d X 1	BMX	60	46	B	7.5	80 / 12
	T-60	525d X 1	BMX					90 / 14
	T-70	630d X 1	BMX	40	63	E	12	100 / 16
	T-90	840d X 1	BMX	30		F	14	120 / 20
	T-105	1050d X 1	BMX				19	140 / 22
	T-135	1260d X 1	BMX	20			27	150 / 24
	T-150	1470d X 1	BMX				29	150 / 24

Notes:

*SEB - Single End Break (lbs.) All strengths are for comparative purposes and should not be used as minimum requirements.

**Minimum recommended needle sizes. Includes both the newer Metric needle size designation and the older Singer needle size designation.

Thread Construction & A&E Brand	<u>Tex Size</u>	<u>Denier Construction</u>	<u>Finish</u> BT- Bonded SST – Soft & Stretch STX – Not Stretched	<u>Metric Size</u>	<u>Old Tkt.</u>	<u>US Gov. Tkt</u> VT285E	<u>Avg.* Strength</u>	<u>Ndl Sz.** Min. Sz.</u>
CF Twisted Multifilament Polyester <i>Anefil Poly</i>	T-16	67d X 2	BT, SST, STX	180		OO	1.8	55 / 7
	T-18	90d X 2	SST	160				55 / 7
	T-21	67d X 3	BT, SST, STX	140		A	3.4	60 / 8
	T-30	125d X 2	BT, SST, STX	100	33	AA	4.7	70 / 10
	T-35	110d X 3	STX	100	33		5.2	70 / 10
	T-45	220d X 2	BT, SST, STX	60	46	B/2	6.7	80 / 12
	T-50	150d X 3	STX			B/3	6.0	90 / 14
	T-70	220d X 3	BT, SST, STX	40	69	E	10.4	100 / 16
	T-90	220d X 4	BT, SST, STX	30	92	F	13.6	120 / 20
	T-105	315d X 3	BT	25				140 / 22
	T-135	420d X 3	BT, SST, STX	20	138	FF	21	150 / 24
	T-180	440d X 4						160 / 26
	T-210	630d X 3	BT, SST	15	207	#3	31	160 / 28
	T-270	840d X 3	BT, SST	10	277	#4	42	180 / 34
	T-300	1000d X 3						250 / 46
	T-350	1100d X 3	BT, SST, STX	8	346	#5	48	
	T-400	1300d X 3	BT, STX	7	415	#6	65	
	T-500	1500d X 3	STX	6	462	#7		
T-600	1800d X 3	BT, SST	5	554	#8	89		
T-700	2000d X 3	BT, SST	4	693	#10	92		
Thread Construction & A&E Brand	<u>Tex Size</u>	<u>Denier Construction</u>	<u>Finish</u> BMX = Bonded Monocord	<u>Metric Size</u>	<u>Old Tkt.</u>	<u>US Gov. Tkt</u> VT285E	<u>Avg.* Strength</u>	<u>Ndl Sz.** Min. Sz.</u>
CF Monocord Poly <i>Anecord Poly</i>	T-14	125d X 1	BMX				1.3	55 / 7
	T-16	140d X 1	BMX	180			1.7	55 / 7
	T-24	220d X 1	BMX	160			2.8	60 / 8
	T-27	250d X 1	BMX	140			3.4	65 / 9
	T-45	440d X 1	BMX	60	46		7.2	80 / 12
	T-70	640d X 1	BMX	40	63		10.4	100 / 16
	T-90	840d X 1	BMX	30			14	120 / 20
	T-105	1000d X 1	BMX	25			21	140 / 22
	T-120	1100 X 1	BMX					140 / 22
	T-135	1300d X 1	BMX	20			27	150 / 24
	T-150	1500d X 1	BMX				29	150 / 24
	T-180	1800d X 1	BMX				34	160 / 26
	T-210	2000d X 1	BMX				37	160 / 28
	T-270	1300d X 2	BMX					

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