

# Thread strength and needle size comparisons.

	TICKET SIZE	GOVERNMENT LETTER SIZE	STANDARD PUT-UP OR CLOCKED YARDAGE	NOMINAL TENSILE STRENGTH	APPROX. THREAD DIAMETER	SUGGESTED NEEDLE SIZE
Synthetic Filaments* Anefil Nylon "Bonded"	BT - 15	00	16 oz. Approx.	2.0 lbs.	.003 in.	10
	BT - 23	A	16 oz. Approx.	3.0	.004	12
	BT - 33	C	14,200 Yds.	4.5	.0065	14
	BT - 46/3	B/3	9,600 Yds.	6.4	.0075	17
	BT - 46/2	B/2	9,600 Yds.	7.0	.0075	17
	BT - 69	E	6,000 Yds.	10.5	.0110	20
	BT - 92	F	4,800 Yds.	14.0	.0120	22
	BT - 99	F	4,000 Yds.	12.5	.0130	22
	BT - 138	FF	3,000 Yds.	21.5	.0170	24
	BT - 207	3 Cord	16 oz. Approx.	31.5	.0220	28
Synthetic Filaments* Anefil Polyester "Bonded"	BT - 46/2	B	16 oz. Approx.	7.1	.0079	17
	BT - 69	E	16 oz. Approx.	10.3	.0115	20
	BT - 92	F	16 oz. Approx.	13.8	.0125	22
	BT - 138	FF	16 oz. Approx.	20.6	.0178	24
	BT - 207	3 Cord	16 oz. Approx.	30.2	.0230	28
Cotton Threads Seminole Brand "Glaze"	35/4	-	6,000 Yds.	3.0	.0095	18
	30/4	-	6,000 Yds.	3.5	.0100	19
	24/4	-	6,000 Yds.	4.5	.0110	20
	20/4	-	6,000 Yds.	5.5	.0130	22
	16/4	-	4,800 Yds.	6.5	.0150	23
	12/4	-	3,600 Yds.	9.0	.0170	24
	10/3	-	16 oz. Approx.	10.0	.0180	26
	10/4	-	16 oz. Approx.	13.5	.0200	28

\*Also available in soft & various put-ups see your sales representative for more details.

## Chemical resistance comparisons.\*

(P = POLYESTER N = NYLON 6-6 C = COTTON)

CHEMICAL	CONC. (%)	TEMP.		TIME (hrs.)	EFFECT ON BREAKING STRENGTH**						
		(F°)	(C°)		None	Slight	Moderate	Appreciable	Degraded		
<b>STRONG MINERAL ACIDS</b>											
Hydrochloric	1	160	71	10	P	N	**	**		C	
Nitric	1	70	21	10	P	N&C	**	**		**	
Nitric	1	210	99	10	P	**	**	N		C	
Sulfuric	1	250	121	1	P	**	N	**		C	
Sulfuric	1	250	121	10	P	**	**	**		N&C	
<b>ORGANIC ACIDS</b>											
Acetic	5	210	99	10	P	**	**		N&C	**	
Benzolic	3	210	99	10	**	P	**		C	N	
Oxalic	5	210	99	10	P	**	**		N	C	
Salicylic	3	210	99	10	P	**	**		N	C	
<b>STRONG ALKALI</b>											
Sodium Hydroxide	1	210	99	10	N&C	P	**		**	**	
Sodium Hydroxide	10	210	99	10	N	**	C	**		P	
Sodium Hydroxide	40	70	21	10	P	N&C	**	**		**	
<b>BLEACHING AGENTS</b>											
Hydrogen peroxide (pH-10)	3	160	71	10	P	**	**		N&C	**	
Peracetic acid (pH-5)	2	210	99	10	P	**	**		C	N	
Sodium chlorite (pH-4)	.07	210	99	10	P	C	N	**		**	
Sodium hypochlorite (pH-11)	4	160	71	10	P	**	**	**		N&C	
Sodium perborate (pH-10)	1	210	99	10	P&N	C	**	**		**	
<b>SALT SOLUTIONS</b>											
Copper Sulfate	3	210	99	10	P	N	**	**		C	
Ferric Chloride	3	210	99	10	P	**	**		N	C	
Sodium Chloride	3	70	21	1,000	P&N	C	**	**		**	
Sodium Chloride	3	210	99	10	P	N&C	**	**		**	

\*None 0-9% Strength loss  
Slight 10-19% Strength loss  
Moderate 20-39% Strength loss  
Appreciable 40-79% Strength loss  
Degraded 80-100% Strength loss

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