



**Mesh Guidelines – Choosing the right mesh for the best print**

- A lower number means a coarser mesh count; a higher number means a finer mesh count. You will need to select the correct mesh count for the artwork you have produced.
- 43T is used most commonly for general textile printing.
- Finer mesh counts for printing with water based inks will prove more difficult because the ink will dry up too quickly on the finer mesh counts.

*Summary Table*

21T 24T	Beach towels, Pennant inks, Glitter inks, Thicker inks.
34T 43T	Textile inks, Opaque inks textile, T-shirts
49T 55T	Textile inks, Finer textile design, Water based inks.
62T 68T	Enamel inks, Very fine textile ink or coarse plastisol ink printing
77T	Paper & Board inks, & textile
90T 100T	Vinyl inks, Plastic inks, Plastisol inks, Solvent based), Paper & Board
110T 120T 130T 140T	Halftone printing, Paper & Board Vinyl Plastic, Plastisol etc
150T 165T 185T	U.V. printing, or very fine halftone work

**Mesh Selection**

With over 400 different meshes to choose from, selecting the correct mesh can be a frustrating process. Use the following information as a general guideline for mesh selection.

- Use 30 threads per inch mesh (12 threads per centimeter) for printing glitter inks.
- Use 60 threads per inch mesh (24 threads per centimeter) for athletic printing, opaque ink deposits, thick puff ink, and shimmer ink.

- Use 85 threads per inch mesh (34 threads per centimeter) for heavy coverage on dark shirts, solid underbase prints, puff, metallic, and shimmer inks, and transfer printing.
- Use 125 threads per inch mesh (49 threads per centimeter) for general printing on dark shirts, underbase prints with detail, prints on dark nylon jackets, and silver shimmer ink.
- Use 180 threads per inch mesh (71 threads per centimeter) for multi-colour printing on light shirts, light colored nylon jackets.
- Use 230 threads per inch mesh (90 threads per centimeter) for detailed multi-colour printing on light shirts, light nylon jackets, over printing on dark shirts.
- Use 305 thread per inch mesh (120 threads per centimeter) for process color on light shirts, overprinting on dark shirts.
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When printing fleece goods use 20 threads lower. When printing with an automatic press use 30 threads higher.

Mesh wire diameter (mesh/cm fÊm)	Mesh (mesh/inch)	Woven structure	Opening size (fÊm)	Wire diameter (fÊm)	Opening rate (%)	Screen thickness (fÊm)	Permissible error (+/-fÊm)	Had ink (cm3/m2)	Weight (g/m2)
13-150PW(SL)	33	1:1	619	150	64	300	14	128	60
21-80PW(S)	55	1:1	296	80	69	120	9	79	35
21-150PW(SL)	55	1:1	326	150	46	260	14	118	121
24-100PW(T)	60	1:1	316	100	57	136	11	65	81
28-140PW(SL)	70	1:1	217	140	40	195	13	76	125
32-55PW(S)	81	1:1	257	55	67	103	6	67	28
32-64PW(S)	81	1:1	248	64	63	95	6	56	32
32-100PW(T)	81	1:1	212	100	45	165	8	73	75
36-90PW(T)	92	1:1	183	90	44	150	8	65	68
39-55PW(S)	100	1:1	177	55	56	88	6	55	30
40-80PW(T)	103	1:1	166	80	44	133	7	59	60
43-80PW(T)	110	1:1	149	80	41	130	7	53	64
47-45PW(S)	120	2:2	166	45*2	61	80	6	42	40
47-55PW(S)	120	1:1	152	55	51	88	6	48	34
48-70PW(T)	122	1:1	133	70	41	115	6	47	55

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53-45PW(S)	135	2:2	143	45*2	57	79	7	41	46
53-55PW(S)	135	1:1	133	55	50	86	6	42	40
54-64PW(T)	137	1:1	115	64	39	100	5	39	51
54-70PW(HD)	137	1:1	109	70	35	116	6	40	62
61-64PW(T)	155	1:1	90	64	31	101	5	30	58
64-55PW(S)	160	1:1	98	55	38	98	5	36	48
64-64PW(T)	160	1:1	85	64	30	115	6	34	61
68-55PW(S)	175	1:1	85	55	34	85	4	28	48
68-64PW(T)	175	1:1	78	64	28	105	5	30	65
72-48PW(S)	182	1:1	90	48	36	78	5	33	39
72-55PW(T)	182	1:1	85	55	30	90	5	27	51
77-48PW(S)	195	1:1	77	48	35	80	4	28	42
77-55PW(T)	195	1:1	67	55	27	88	4	24	55
80-48PW(T)	200	1:1	72	48	33	74	4	25	56
90-48PW(T)	230	1:1	56	48	25	78	4	19	50
100-40PW(T)	255	1:1	58	40	33	63	3	21	37
110-40PW(HD)	280	1:1	48	40	27	64	3	17	40
120-31PW(S)	305	1:1	49	31	35	49	3	17	26
120-34PW(T)	305	1:1	45	34	30	55	3	16	35
120-40PW(HD)	305	1:1	37	40	20	63	3	13	44
130-34PW(T)	330	1:1	40	34	27	55	3	15	37
140-31PW(S)	355	1:1	36	31	26	48	2	12	30
140-34PW(T)	355	1:1	31	34	20	53	3	10	39
140-34TW(T)	355	2:1	33	34	21	56	3	12	41
150-31PW(S)	380	1:1	32	31	23	49	3	11	32

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150-34PW(T)	380	1:1	23	34	13	55	3	6.5	42
165-31PW(S)	420	1:1	23	31	15	48	2	7	36
<i>PW:(Plain Weave);TW:(Twill Weave); S\T\HD:(thickness of Mesh)</i>									