

SEFAR® PET 1500



Product description

SEFAR® PET 1500 the most comprehensive range of screen printing mesh for a streamlined and reproducible stencil production. It meets all the requirements for detail reproduction, homogeneity of face printing, print run consistency and registration accuracy in multi-color printing. The special SEFAR® PET 1500 surface treatment aims to improve adhesion, good wettability and good antistatic properties. These features allow a high quality and efficient processing of all commercially available screen printing systems.

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Mesh number	Mesh count [cm]	Mesh count [inch]	Thread diameter nominal [µm]	Weave	Tolerance of mesh count [± n/cm]	Mesh opening [µm]	Open area [%]	Mesh thickness (woven) [µm]	Tolerance of mesh thickness [± µm]	Theoretical ink volume [cm ³ /m ²]	Available mesh widths (Tolerance -0 / +6) [cm]										
											115	136	142	158	186	212	234	260	316	365	
190/480-31 TW	190	480	31	2:2	5.0	16	9	55	3	5	▽○										
180/460-31 TW	180	460	31	2:2	4.5	23	16	56	4	9	▼●	▽		▼●		▽					
180/460-27 PW	180	460	27	1:1	4.5	22	15	43	2	7	▼	▼		▼							
165/420-34 TW	165	420	34	1:1	4.0	23	14	62	3	9	▼●	▼		▼●							
165/420-31 PW	165	420	31	1:1	4.0	23	15	48	2	7	▼●	▼		▼●		▼	▼				
165/420-27 PW	165	420	27	1:1	4.0	29	22	43	2	10	▼	▼		▼		▼					
150/380-34 TW	150	380	34	2:1	4.0	26	15	62	3	10	▼	▼		▼		▼	▽	▼			
150/380-34 PW	150	380	34	1:1	4.0	23	12	55	3	7	▼●	▼		▼●	▼	▼●	▼●	▼○			
150/380-31 PW	150	380	31	1:1	4.0	32	23	47	2	11	▼○	▼		▼○	▼	▼	▽				
150/380-27 PW	150	380	27	1:1	4.0	36	29	42	2	12	▼			▼							
140/355-34 TW	140	355	34	2:1	3.5	33	21	61	3	13		▼		▽		▽					
140/355-34 PW	140	355	34	1:1	3.5	31	19	55	3	11	▼●	▼●		▼●		▼●	▼●	▽			
140/355-31 PW	140	355	31	1:1	3.5	36	26	48	2	12	▼●	▼		▼●		▼					
130/330-34 PW	130	330	34	1:1	3.5	40	27	53	2	15	▼○		▼	▼		▽					
120/305-40 PW	120	305	40	1:1	3.0	37	20	64	3	13	▼●		▼●	▼●	●	▼○	▼○	○			
120/305-34 PW	120	305	34	1:1	3.0	45	30	58	3	17	▼●		▼●	▼●	▼●	▼●	▼●	▼○	○		
120/305-31 PW	120	305	31	1:1	3.0	49	35	49	3	17	▼●		▼	▼●							
110/280-40 PW	110	280	40	1:1	3.0	47	27	65	3	17	▼		▼○	▼●		▼					
110/280-34 PW	110	280	34	1:1	3.0	54	35	55	3	19	▼●		▼	▼●							
100/255-40 PW	100	255	40	1:1	2.5	57	32	64	3	21	▼●		▼●	▼●	▼●	▼●	▼○	○			
90/230-48 PW	90	230	48	1:1	2.5	55	25	78	4	19	▼●		▼●	▼●	▼●	▼●	▼●	▼●	○		
90/230-40 PW	90	230	40	1:1	2.5	68	38	65	3	24	▼●		▼	▼●		○	▽				
77/195-48 PW	77	195	48	1:1	2.0	77	35	80	4	28	▼●		▼○	▼●	▼●	▼●	○			▼	
77/195-55 PW	77	195	55	1:1	2.0	67	26	87	4	23	▼●		▼●	▼●	▼●	▼●	▼○	▼○	○		
73/186-55 PW	73	186	55	1:1	2.0	75	30	89	5	27	●		▽	▼○							
71/180-55 PW	71	180	55	1:1	2.0	78	30	90	5	28				○	○	●	●				
68/175-70 TW	68	175	70	2:1	1.5	70	23	125	6	28						○					
68/175-64 PW	68	175	64	1:1	1.5	78	28	98	5	28	●			●		○					
68/175-55 PW	68	175	55	1:1	1.5	85	33	87	4	29	▼●		▼○	●●	▼●	▼●	▼○	○	●		
61/156-70 PW	61	156	70	1:1	1.5	86	27	114	6	31	●			●							

In stock = ▼● Item on request = ▼○ Color: white = ●○ yellow = ▼▼ Subject to change without notice

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Mesh number	Mesh count [cm]	Mesh count [inch]	Thread diameter nominal [µm]	Weave	Tolerance of mesh count [± n/cm]	Mesh opening [µm]	Open area [%]	Mesh thickness (woven) [µm]	Tolerance of mesh thickness [± µm]	Theoretical ink volume [cm ³ /m ²]	Available mesh widths (Tolerance -0 / +6) [cm]									
											115	136	142	158	186	212	234	260	316	365
61/156-64 PW	61	156	64	1:1	1.5	90	30	101	5	30	▼●		▼●	▼●	▽●	▼●	○	▽●	●	
54/137-70 PW	54	137	70	1:1	1.5	109	35	112	6	39	○			●		○				
54/137-64 PW	54	137	64	1:1	1.5	115	39	103	5	40	▼●		▼●	▼●		▼●	○	○		○
51/131-70 PW	51	131	70	1:1	1.5	121	38	114	6	43	●			●						
48/123-80 PW	48	123	80	1:1	1.2	122	34	130	7	45				●						
48/123-70 PW	48	123	70	1:1	1.2	133	41	113	6	46	▼●		▽●	▼●	○	●	○	○	●	
48/123-55 PW	48	123	55	1:1	1.2	151	53	90	5	47	●		○	▼●	○					
45/115-80 PW	45	115	80	1:1	1.2	138	39	130	7	50				●						
45/115-70 PW	45	115	70	1:1	1.2	150	46	115	6	52	●			●						
43/110-90 PW	43	110	90	1:1	1.2	136	34	150	8	51	●									
43/110-80 PW	43	110	80	1:1	1.2	149	41	134	7	55	▼●		▼●	▼●	○	▼●	●	○		
40/103-80 PW	40	103	80	1:1	1.2	166	44	133	7	59	●		●	●		○				
36/92-100 PW	36	92	100	1:1	1.2	174	39	162	8	63	○		▽○	●	○					
36/92-90 PW	36	92	90	1:1	1.2	183	43	147	7	64	●		●	●		○	○			
32/83-120 PW	32	83	120	1:1	1.2	191	37	210	11	78				●						
32/83-100 PW	32	83	100	1:1	1.2	209	44	166	8	74	▼●		●	▽●		●				
32/83-70 PW	32	83	70	1:1	1.2	240	59	117	6	69	●		●	▼●						
30/76-120 PW	30	76	120	1:1	1.2	211	40	212	11	85	●		○	○						
27/70-140 PW	27	70	140	1:1	1.0	222	36	245	12	88	●									
27/70-120 PW	27	70	120	1:1	1.0	249	45	210	11	95	●		●	●						
24/60-140 PW	24	60	140	1:1	1.0	270	42	250	13	105	●		●	●	○	●				●
24/60-120 PW	24	60	120	1:1	1.0	294	50	210	11	104	●		●	●						
21/54-140 PW	21	54	140	1:1	1.0	333	49	250	13	122	●		●	●						
18/45-180 PW	18	45	180	1:1	1.0	375	45	330	22	150	●		●	●						
15/40-250 PW	15	40	250	1:1	1.0	417	39	425	30	166				●						
15/40-200 PW	15	40	200	1:1	1.0	465	49	353	25	172	●		○	●						
12/30-140 PW	12	30	140	1:1	1.0	688	68	256	18	175	●		●							
10/25-260 PW	10	25	260	1:1	1.0	739	55	498	35	272	○			○						

SEFAR® PET 1500 OSC

Mesh number	Mesh count [cm]	Mesh count [inch]	Thread diameter nominal [µm]	Weave	Tolerance of mesh count [± n/cm]	Mesh opening [µm]	Open area [%]	Mesh thickness (woven) [µm]	Tolerance of mesh thickness [± µm]	Theoretical ink volume [cm ³ /m ²]	152	206								
180/460-31 TW OSC	180	460	31	2:2	4.5	21	14	49	2	7	▽									
165/420-34 TW OSC	165	420	34	2:2	4.0	18	9	55	3	5	▽									
150/380-31 PW OSC	150	380	31	1:1	4.0	29	19	44	2	8		▽								
140/355-34 PW OSC	140	355	34	1:1	3.5	28	16	52	3	8	▽	▽								

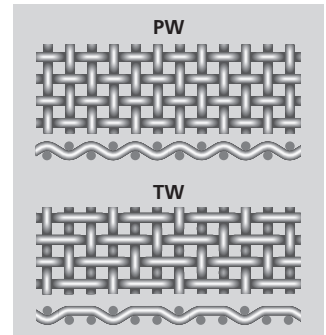
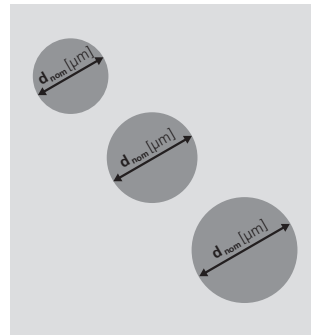
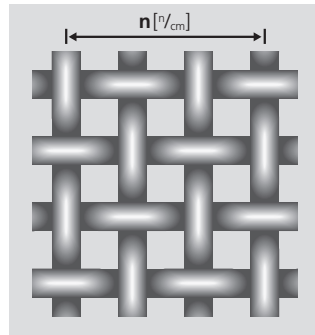
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Definitions

150/380-31 W PW
 150/380-31 W PW
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 150/380-31 **W** PW
 150/380-31 W **PW**

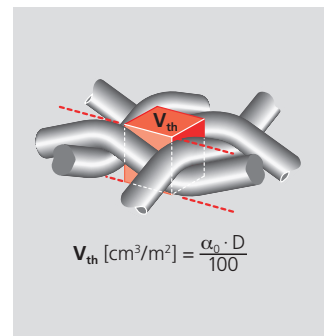
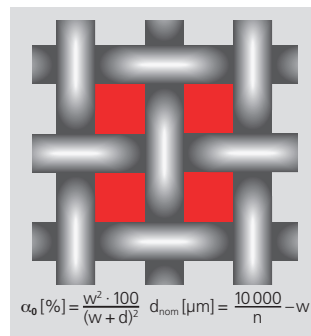
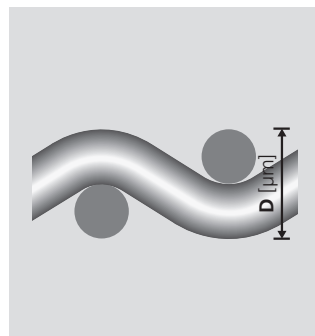
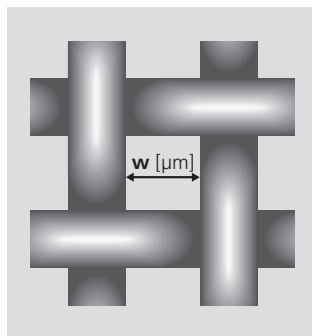


Mesh number
 Mesh count n_{cm} 150/380-31 W PW
 Mesh count n_{inch} 150/380-31 W PW
 Thread-Ø d_{nom} 150/380-31 W PW
 Mesh colour 150/380-31 **W** PW
 Type of wave 150/380-31 W **PW**
 (white = W, yellow = Y)

Mesh count n [1/cm]
 The mesh count **n** stands for the number of threads per cm or inch. The tolerance is the defined range of the statistically ascertained mean values of mesh counts.

Thread diameter nominal d_{nom} [µm]
 The diameter d_{nom} is measured on the thread before weaving.

Weave
 The type of weave is either **PW** (plain weave 1:1) or **TW** (twill weave 2:1, 2:2)



Mesh opening w [µm]
 The mesh opening **w** is the distance between two adjacent warp or weft threads.

Mesh thickness D [µm]
 The mesh thickness **D** is measured according to DIN 53855-1. The tolerance is the defined range of the statistically ascertained mean values of mesh thickness.

Percentage of open area α_0 [%]
 The percentage of open area α_0 is the sum of all mesh opening areas expressed as a percentage of the total screen area. It is calculated from the mean value of mesh openings and the actual diameter of the threads.

Theoretical ink volume V_{th} [cm³/m²]
 The theoretical ink volume V_{th} is calculated from the mesh thickness **D** and the percentage of open area α_0 .

The abbreviations correspond with DIN Norm 16 611. All values correspond to unstretched mesh.

Note

The product data stated here and our advice on application technology, in verbal and written form and on the basis of tests and experiments, are provided to the best of our knowledge and belief; however, this information must be regarded as non-binding. It is based on our current knowledge and experience, and on standardized process and test conditions as per DIN standards 16610 / 16611 / 53804 / 53855-1 and ISO 13934. As many variations may occur due to each specific application, we are unable to provide an overall assessment regarding the range of fluctuations for processes and follow-up processes (i.e. parameters, interactions with materials and machines used, and chemical reactions). For this reason, the parameters we recommend should be understood merely as values for guidance purposes. All the illustrations, descriptions, data, diagrams and tables, etc., shown here may change without prior notice, and they do not represent the contractually agreed characteristics of the product. It is impossible for us to have control over the post-processing of our products, so the user is solely responsible in this regard. Our products are sold and distributed in accordance with the latest version of our General Terms and Conditions of Sale and Delivery.



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