

Twill Weave Wire Mesh

In the Twill Weave wire mesh every weft wire passes alternately up and down of double warp wires to produce staggered mesh in the warp direction. It offers heavier wires in the specific mesh count as compare to in plain weave. This woven mesh type is used to produce the fine filtrations.



Woven wire mesh is designated by the mesh number showing the count of wires per linear inch. However latest international standards choose aperture size and wire diameter.

Twill Weave Mesh Specification

Mesh count						By aperture size in mm				
Mesh per 25.4 mm	Wire dia	Closest equivalent . SWG	Aperture size	Open area	Weight kg/m ²	Aperture size, mm	Wire dia	Open area	Mesh per 25.4 mm	Weight
2	2 mm	14	10.7 mm	71 %	3.98	11.2 mm	2 mm	72 %	1.92	3.82 kg/m ²
2	1.6 mm	16	11.1 mm	76 %	2.54	11.2 mm	1.8 mm	74 %	1.95	3.15 kg/m ²
3	2 mm	14	6.47 mm	58 %	5.96	6.3 mm	2 mm	58 %	3.06	6.08 kg/m ²
3	1.6 mm	16	6.87 mm	66 %	3.81	7.1 mm	1.6	67 %	2.92	3.71 kg/m ²
3 ½	1 mm	19	6.26 mm	74 %	1.74	6.3 mm	1 mm	74 %	3.48	1.73 kg/m ²
4	1.6 mm	16	4.75 mm	56 %	5.09	4.75 mm	1.6 mm	56 %	4	5.09 kg/m ²
4	1.25 mm	18	5.10 mm	64 %	3.11	5 mm	1.25 mm	64 %	4.06	3.16 kg/m ²
4	0.90 mm	20	5.45 mm	74 %	1.61	5.60 mm	0.90 mm	74 %	3.91	1.57 kg/m ²
5	1.60 mm	16	3.48 mm	47 %	6.36	3.55 mm	1.25 mm	55 %	5.29	4.11 kg/m ²
5	1 mm	19	4.08 mm	65 %	2.48	4 mm	0.90 mm	64 %	5.08	2.52 kg/m ²
6	1.60 mm	16	2.63 mm	39 %	7.64	2.8 mm	1.25 mm	40 %	5.77	7.34 kg/m ²
6	1.25 mm	18	2.98 mm	50 %	4.66	3.15 mm	1 mm	51 %	5.77	4.88 kg/m ²
6	0.90 mm	20	3.33 mm	62 %	2.42	3.35 mm	1.60 mm	62 %	5.98	2.41 kg/m ²
8	1.25 mm	18	1.93 mm	37 %	6.20	2 mm	1.25 mm	38 %	7.82	6.07 kg/m ²
8	0.90 mm	20	2.28 mm	51 %	3.21	2.24 mm	0.90 mm	51 %	8.09	3.26 kg/m ²
8	0.71 mm	22	2.47 mm	60 %	2	2.50 mm	0.71 mm	61 %	7.91	1.98 kg/m ²
1	0.90 mm	20	1.64 mm	42 %	4.02	1.60 mm	0.80 mm	44 %	10.58	3.37 kg/m ²
10	0.71 mm	22	1.83 mm	51 %	2.50	1.80 mm	0.80 mm	48 %	9.77	3.11 kg/m ²
10	0.56 mm	24	1.98 mm	61 %	1.56	2 mm	0.56 mm	61 %	9.92	1.55 kg/m ²
12	0.56 mm	24	1.56 mm	54 %	1.87	1.60 mm	0.50 mm	58 %	12.10	1.50 kg/m ²
12	0.50 mm	25	1.62 mm	58 %	1.49	1.60 mm	0.50 mm	58 %	12.10	1.50 kg/m ²
12	0.45 mm	26	1.67 mm	62 %	1.21	1.60 mm	0.45 mm	61 %	12.39	1.25 kg/m ²
14	0.50 mm	25	1.31 mm	52 %	1.74	1.25 mm	0.50 mm	51 %	14.51	1.80 kg/m ²
14	0.45 mm	26	1.36 mm	56 %	1.41	1.40 mm	0.45 mm	57 %	13.73	1.38 kg/m ²

14	0.40 mm	27	1.41 mm	61 %	1.12	1.40 mm	.45 mm	57 %	13.73	1.38 kg/m2
16	.56 mm	24	1.03 mm	42 %	2.49	1 mm	.56 mm	41 %	16.28	2.54 kg/m2
16	.45 mm	26	1.14 mm	51 %	1.61	1.12 mm	.45 mm	51 %	16.18	1.63 kg/m2
16	.40 mm	27	1.19 mm	56 %	1.27	1.18 mm	.45 mm	52 %	15.58	1.57 kg/m2
16	.355 mm	28	1.23 mm	60 %	1	1.25 mm	.315 mm	63 %	16.23	0.80 kg/m2
16	.315 mm	30	1.27 mm	64 %	0.79	1.25 mm	.315 mm	63 %	16.23	0.80 kg/m2
18	.500 mm	25	0.91 mm	42 %	2.24	.90 mm	.500 mm	41 %	18.14	2.25 kg/m2
18	.400 mm	27	1.01 mm	51 %	1.43	1 mm	.400 mm	51 %	18.14	1.44 kg/m2
18	.355 mm	28	1.06 mm	56 %	1.12	1.12 mm	.355 mm	57 %	17.22	1.08 kg/m2
20	.560 mm	24	0.71 mm	31 %	3.12	.71 mm	.560 mm	31 %	20	3.12 kg/m2
20	.450 mm	26	0.82 mm	42 %	2.01	.80 mm	.450 mm	41 %	20.32	2.04 kg/m2
20	.355 mm	28	.915 mm	52 %	1.25	.90 mm	.355 mm	51 %	20.24	1.27 kg/m2
20	.315 mm	30	.955 mm	57 %	.99	1 mm	.355 mm	54 %	18.75	1.17 kg/m2
24	0.450 mm	26	.608 mm	33 %	2.42	.60 mm	.450 mm	33 %	24.19	2.43 kg/m2
24	0.355 mm	29	.703 mm	44 %	1.50	.71 mm	.355 mm	44 %	23.85	1.49 kg/m2
28	0.355 mm	28	.552 mm	37 %	1.75	.56 mm	.355 mm	37 %	27.76	1.74 kg/m2
30	0.315 mm	30	.532 mm	39 %	1.48	.50 mm	.315 mm	37 %	31.17	1.54 kg/m2
30	0.280 mm	32	.567 mm	45 %	1.17	.56 mm	.280 mm	44 %	30.24	1.18 kg/m2
30	0.224 mm	34	.623 mm	54 %	.75	.63 mm	.224 mm	55 %	29.74	.74 kg/m2
36	0.250 mm	33	.456 mm	41 %	1.12	.45 mm	.250 mm	41 %	40.79	1.01 kg/m2
40	0.224 mm	34	.411 mm	42 %	1	.40 mm	.224 mm	42 %	49.32	.98 kg/m2
50	.200 mm	35	.308 mm	37 %	.99	.315 mm	.200 mm	37 %	53.47	.68 kg/m2
50	.180 mm	36	.328 mm	42 %	.81	.315 mm	.160 mm	44 %	57.73	.73 kg/m2
60	.160 mm	37	.263 mm	39 %	.76	.280 mm	.160 mm	40 %	70.56	.90 kg/m2
70	.160 mm	38	.203 mm	32 %	.89	.200 mm	.160 mm	31 %	79.38	.77 kg/m2
80	.140 mm	39	.178 mm	31 %	.78	.180 mm	.140 mm	32 %	100.79	.63 kg/m2
100	.112 mm	41	.142 mm	31 %	.62	.140 mm	.112 mm	31 %	101.60	.50 kg/m2
100	.100 mm	42	.154 mm	37 %	.50	.150 mm	.100 mm	36 %	118.13	.48 kg/m2
120	.090 mm	43	.122 mm	33 %	.48	.125 mm	.090 mm	34 %	141.11	.45 kg/m2
140	.080 mm	44	.101 mm	31 %	.45	.100 mm	.080 mm	31 %	155.83	.31 kg/m2
150	.063 mm	45 ½	.106 mm	39 %	.30	.100 mm	.063 mm	38 %	188.15	.19 kg/m2
180	.050 mm	47	.091 mm	42 %	.22	.090 mm	.045 mm	44 %	203.20	.25 kg/m2
200	.050 mm	47	.077 mm	36 %	.25	.075 mm	.050 mm	36 %	188.15	.19 kg/m2
200	.040 mm	48	.087 mm	47 %	.16	.090 mm	.045 mm	44 %	246.60	.20 kg/m2
250	.040 mm	48	.062 mm	37 %	.20	.063 mm	.040 mm	37 %	288.64	.15 kg/m2
300	.030 mm	49	.055 mm	42 %	.13	.056 mm	.032 mm	41 %	329.87	.17 kg/m2
325	.030 mm	49	.048 mm	38 %	.15	.045 mm	.032 mm	34 %	362.86	0.16 kg/m2
350	.030 mm	49	.043 mm	35 %	.16	.040 mm	.030 mm	33 %	384.85	0.17 kg/m2
400	.030 mm	49	.034 mm	28 %	.18	.036 mm	.030 mm	30 %	384.85	.17 kg/m2
400	.030 mm	49	.034 mm	28 %	.18	.036 mm	.030 mm	30 %	384.85	.17 kg/m2
500	.025 mm	50	.026 mm	26 %	.15	.026 mm	.025 mm	26 %	498.04	.15 kg/m2

Besides of above specification the entire metric specifications mentioned in BS481:1971 can be delivered with the whole specifications included in ISO 4783.

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