

## WOVEN WIRE CLOTH

Because of its many beneficial properties, woven wire cloth is used for many purposes, mostly as a filtration and screening medium.

### What is wire cloth?

It is made from longitudinal (warp) and transverse wires (weft), which cross at right angles, thus forming firm weaves. By varying the arrangement of the wires, one get different types of weave: plain, twilled, plain dutch and twilled dutch weave.

We supply wire cloth in roll form or as cut pieces. We are pleased to assist our customers in solving their problems suggesting the right choose of woven wire cloth or filter elements.

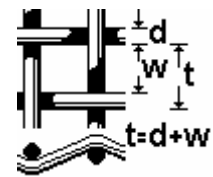
### WIRE CLOTH DESIGNATION

d - wire diameter (mm)  
 w - opening size (mm)  
 t - pitch

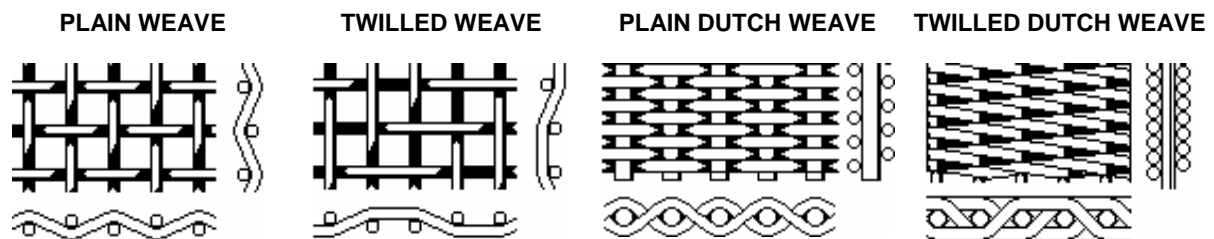
$$t = w + d$$

Fo - open area (%)  
 width of weave - standard 1000, 1020, 1220 mm  
 mesh - holes per linear inch (25,4 mm)

$$Fo = 100(w/(w+d))^2$$



### TYPES OF WEAVE



#### Wide range of uses:

- sieving
- draining
- filtering
- separation
- protection
- reinforcement
- decoration

#### Areas of use:

- household
- building trade
- chemical industry
- food industry
- automobile and oil industry
- plastics extrusion and sintetic fibre production
- pharmaceutical industry
- building industry
- ceramics industry
- processing industry
- fluid cleaning
- ecology

#### Wide range of materials:

- mild steel
- stainless steel
- galvanized steel
- copper
- brass
- aluminium
- phosphor-bronze
- syntetic mono-filaments

#### Wire cloth benefits:

- high durability, stable under tension
- chemical and thermic tolerance
- accurate apertures
- smooth surface
- flexible enough for chaping purposes
- high open area-flow rate
- cleanability
- long working life

### WIRE CLOTH - SQUARE MESH

nominal opening w (mm)	wire diameter d (mm)	mesh number Mesh	open area Fo(%)	weight G(kg/m2)*	material				nominal opening w (mm)	wire diameter d (mm)	mesh number Mesh	open area Fo (%)	weight G(kg/m2)*	material			
					steel	galv. steel	brass	stainl. steel						steel	galv. steel	brass	stai. steel
11,2	1,60	2	76	2,56				X	0,900	0,50	18	41	2,25				X
7,10	1,60	3	66	3,84				X	0,900	0,40	20	48	1,60	X			X
7,10	0,90	3	79	1,22	X	X			0,900	0,355	20	52	1,26	X	X		X
5,60	0,90	4	74	1,62	X	X		X	0,900	0,20	24	67	0,48	X	X		
5,00	0,71	4,5	77	1,13	X				0,800	0,50	20	38	2,50	X			X
4,75	1,60	4	57	5,12				X	0,800	0,25	24	58	0,75	X	X		X
4,50	0,80	5	72	1,60	X	X		X	0,710	0,355	24	44	1,51	X			X
4,00	0,71	5,5	72	1,39	X				0,710	0,25	26	55	0,82	X		X	X
3,55	0,90	6	62	2,43	X			X	0,630	0,40	24	37	1,92	X			X
3,55	0,63	6	72	1,19	X	X			0,630	0,224	30	54	0,75				X
3,15	0,80	6,5	64	2,08				X	0,630	0,20	30	58	0,60		X	X	
3,15	0,56	7	72	1,10	X	X	X		0,560	0,355	28	37	1,76	X			X
2,80	0,80	7	60	2,24				X	0,560	0,28	30	44	1,17	X			X
2,50	0,71	8	61	2,01	X			X	0,500	0,40	28	31	2,24 **	X			
2,50	0,50	8	69	1,00	X	X			0,500	0,315	30	41	1,49				X
2,24	0,90	8	51	3,24	X	X		X	0,500	0,20	36	51	0,72	X	X		X
2,24	0,56	9	64	1,41		X			0,450	0,40	30	28	2,40 **	X			
2,00	0,63	10	58	1,98	X			X	0,450	0,25	36	41	1,13				X
2,00	0,56	10	60	1,57	X	X		X	0,450	0,20	40	48	0,80		X	X	X
2,00	0,40	10	69	0,80	X	X	X		0,400	0,224	40	41	1,00	X			X
1,80	0,56	11	58	1,72		X			0,400	0,25	40	38	1,25	X			X
1,80	0,355	12	70	0,78	X	X			0,400	0,16	45	51	0,58	X			
1,60	0,90	10	42	4,05	X				0,355	0,16	50	48	0,64				X
1,60	0,71	11	48	2,77	X				0,315	0,20	50	38	1,00	X			X
1,60	0,56	12	60	1,88	X			X	0,280	0,18	55	37	0,89			X	
1,60	0,355	13	70	0,82	X	X			0,280	0,224	50	31	1,25	X			
1,40	0,71	12	44	3,03	X			X	0,250	0,16	60	37	0,77	X			X
1,40	0,45	14	57	1,42				X	0,200	0,125	80	41	0,63				X
1,40	0,315	14	67	0,70	X	X			0,160	0,10	100	38	0,50				X
1,40	0,25	15	72	0,48		X			0,140	0,112	100	31	0,63				X
1,25	0,50	14	53	1,75	X			X	0,125	0,08	120	37	0,38				X
1,25	0,315	16	64	0,80	X	X	X		0,100	0,063	150	39	0,30				X
1,18	0,40	16	54	1,28				X	0,090	0,050	180	41	0,23				X
1,12	0,71	14	38	3,53	X			X	0,075	0,050	200	36	0,25				X
1,12	0,45	16	51	1,62	X				0,063	0,040	250	38	0,20				X
1,12	0,25	18	67	0,56	X	X			0,053	0,040	275	35	0,18				X
1,00	0,56	16	41	2,51	X				0,042	0,036	325	29	0,21				X
1,00	0,50	17	44	2,12	X			X	0,040	0,030	350	35	0,16				X
1,00	0,40	18	51	1,44	X			X	0,036	0,028	400	32	0,16 **				X
1,00	0,25	20	64	0,63	X	X	X	X									

### WIRE CLOTH-PLAIN DUTCH WEAVE

### WIRE CLOTH-TWILLED DUTCH WEAVE

mesh number	wire diameter d (mm)	width of aperture w (micron)	weight G (kg/m2) *	material		mesh number	wire diameter d (mm)	width of aperture w (micron)	weight G (kg/m2) *	material	
				steel	stainl. steel					steel	stainl. steel
12 x 64	0,60 x 0,40	300	4,00	X	X	20 x 270	0,25 x 0,20	100	3,00		X
14 x 80	0,50 x 0,35	250	3,30	X	X	30 x 360	0,25 x 0,15	80	2,50		X
18 x 100	0,45 x 0,28	200	2,90	X	X	80 x 700	0,10 x 0,075	25	1,20		X
24 x 110	0,35 x 0,25	150	2,50	X	X	165 x 800	0,071x0,050	20	0,75		X
30 x 150	0,23 x 0,18	100	1,60	X	X	165 x 1400	0,071x0,040	15	0,70		X
40 x 200	0,18 x 0,14	80	1,30	X	X	200 x 1400	0,071x0,040	10	0,75		X
50 x 250	0,14 x 0,11	50	1,00		X						
80 x 300	0,12 x 0,09	35	0,90		X						

\* Weight for steel (spec. wt 7,85); for other metals multiply by the following factors: stainless steel 1,010; brass MS 63 1,076; aluminium 0,344;

\*\* Twilled weave

The plain square mesh (marked with x) shown in table are that widely used in industry and is available ex-stock from our works. Standard widths are 1000 mm (39,4"), 1020 mm (40"), 1220 mm (48"). Other widths can be made.

When ordering, please specify: 1. Material, 2. Aperture size (w) or mesh count (mesh), 3. Wire diameter (d), 4. Dimension (width, length) of roll or cut pices; for filter send sample, sketch or drawings, 5. Types of weave, 6. Quantity (SQM), for filter pieces.