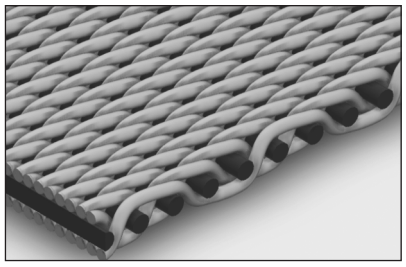
Twilled Dutch Weave

Wire Diameters and Specifications



As with plain weave, the shute wires of twilled dutch weave (TDW) are arranged as close together as possible. However, this weave has double the number of shute wires than plain dutch weave. A very small aperture is formed by three shute wires which cross in different directions and, together with the warp wires, create a channel that is open on two sides. The structure of this tight weave provides high filtration accuracy. Another variation is Open Twilled Dutch Weave where fewer shute wires are used to influence the filtration rate.

Mesh Per Inch Warp x Shute	Wire Diameter D				Porosity %	Thickness		Weight		Porosity Retention Micron µm (Nominal)
	inches		mm			inches	mm	Lbs/sq. ft.	Kg/m²	
	warp	shute	warp	shute						
14x128	0.020	0.016	0.500	0.400	43	0.052	1.31	1.19	5.81	200
18x210	0.018	0.010	0.457	0.254	51	0.042	1.06	0.88	4.28	200
12.7x220 (T)	0.011	0.010	0.280	0.250	44	0.035	0.90	0.84	4.10	105
16x270 (D)	0.009	0.008	0.240	0.210	41	0.029	0.73	0.69	3.35	125
18x330	0.020	0.007	0.500	0.180	59	0.046	1.18	0.78	3.80	100
20x216	0.011	0.010	0.270	0.250	40	0.032	0.82	0.78	3.82	110
20x250	0.010	0.009	0.250	0.220	41	0.026	0.66	0.69	3.35	100
20x260	0.018	0.009	0.450	0.220	42	0.040	1.01	0.85	4.16	108
25x160	0.016	0.012	0.400	0.300	46	0.039	1.00	0.94	4.60	105
30x250	0.010	0.008	0.250	0.200	40	0.026	0.65	0.63	3.10	90
30x360	0.010	0.006	0.250	0.150	39	0.024	0.60	0.51	2.49	90
40x250	0.010	0.009	0.250	0.220	36	0.028	0.72	0.75	3.65	75
40x550	0.007	0.004	0.180	0.100	52	0.017	0.43	0.35	1.70	65
50x250	0.010	0.008	0.250	0.200	40	0.028	0.70	0.67	3.28	50
60x700	0.006	0.003	0.165	0.076	49	0.016	0.40	0.29	1.42	45
80x700	0.004	0.003	0.100	0.076	42	0.011	0.27	0.25	1.21	35
110x850	0.004	0.003	0.090	0.065	42	0.009	0.24	0.23	1.12	30
165x1100	0.003	0.002	0.070	0.044	29	0.007	0.17	0.15	0.75	18
165x1400	0.003	0.002	0.070	0.040	30	0.006	0.15	0.16	0.76	15

D = Double Warp Wires
T = Triple Warp Wires

Twilled Dutch Weave (continued)

Mesh Per Inch Warp x Shute	Wire Diameter D				Porosity %	Thickness		Weight		Porosity Retention Micron µm (Nominal)
	inches		mm			inches	mm	Lbs/sq. ft.	Kg/m²	
	warp	shute	warp	shute						
200x1400	0.003	0.002	0.070	0.040	33	0.006	0.15	0.16	0.76	13
250x1370	0.002	0.002	0.058	0.043	32	0.006	0.14	0.17	0.84	9
325x1900	0.001	0.001	0.035	0.027	39	0.004	0.10	0.09	0.45	7
325x1900	0.001	0.001	0.038	0.028	34	0.004	0.09	0.10	0.49	10
325x2300	0.001	0.001	0.038	0.025	30	0.003	0.09	0.10	0.47	8
375x2300	0.001	0.001	0.032	0.025	35	0.004	0.09	0.09	0.46	3
400x2800	0.001	0.001	0.029	0.023	33	0.003	0.07	0.09	0.45	2
450x2750	0.001	0.001	0.025	0.020	33	0.003	0.07	0.07	0.36	<1.5
508x3600	0.001	0.001	0.025	0.017	34	0.002	0.05	0.07	0.34	1