

Wire cloth for screen printing - Technical Details

Designation	Mesh opening	Wire diameter	Number of wires (K = twilled weave)		Open mesh area	Mesh thickness		Theoretical ink volume	Recommended screen tension	
	w µm	d mm	per cm (n)	per inch (Mesh)	Ao %	Average D µm	Min.-Max. D µm	Vth cm³/m²	0.1%Res N/cm	0.5%Res N/cm
Standard grades SD										
SD 224/100	224	0.100	31	80	48	215±5.0	±5	103		63-65*
SD 160/ 75	160	0.075	43	105	46	162±4.0	±4	75		44-46*
SD 140/65	140	0.065	49	120	47	140±3.0	±3	65		39-41*
SD 125/65	125	0.065	53	135	43	140±3.0	±3	61	38-40	42-44*
SD 118/ 56	118	0.056	57	145	46	120±2.5	±3	55	36-38	35-37
SD 100/50	100	0.050	67	165	44	110±2.5	±3	49		33-35
SD 95/45	95	0.045	71	180	46	102±2.5	±3	47	33-35	29-31
SD 90/ 40	90	0.040	77	200	48	90±2.5	±3	43	31-33	25-27
SD 75/36	75	0.036	90	230	46	80±2.5	±2	37	30-32	22-24
SD 63/36	63	0.036	97	250	40	80±2.5	±2	32	31-33	25-27
SD 56/ 36	56	0.036	109	270	37	80±2.5	±2	30	32-34	28-30
SD 59/32	59	0.032	110	280	42	68±2.0	±2	29	29-31	21-23
SD 56/32	56	0.032	114	300	40	68±2.0	±2	28	30-32	22-24
SD 50/ 30	50	0.030	125	325	39	62±1.5	±2	24	29-31	21-23
SD 40/28	40	0.028	146	370	35	58±1.5	±2	20	29-31	21-23
SD 40/25	40	0.025	154	400	38	51±1.5	±2	19	26-28	20-22
SD 40/ 23	40	0.023	159	400	40	48±1.0	±2	19	20-22	15-17



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Heavy grades SD										
SD 100/65	100	0.065	61	150	37	140±3.0	±3	51		50-52*
SD 80/ 50	80	0.050	77	200	38	110±3.0	±2	42		39-41*
SD 63/40	63	0.040	97	250	37	90±2.5	±2	34	35-37	31-33
SD 56/40	56	0.040	109	270K	34	88±2.5	±2	30	38-40	35-37
SD 42/ 36	42	0.036	125	325K	29	76±2.0	±2	22	36-38	32-34
SD 36/28	36	0.028	154	400K	32	60±1.5	±2	19	31-33	25-27
SD 32/25	32	0.025	180	450K	32	54±1.5	±2	17	29-31	21-23
SD 25/ 25	25	0.025	200	510K	25	54±1.5	±2	14	31-33	25-27
Ultra-thin grades SD										
SD 300/65	300	0.065	27	70	68	140±3.0	±3	95	29-31	21-23
SD 265/ 50	265	0.050	31	80	71	110±2.5	±3	78	20-22	15-17
SD 245/65	245	0.065	32	82	62	140±3.0	±3	87	34-37	25-27
SD 90/36	90	0.036	79	200	51	80±2.0	±2	41	26-28	20-22
SD 80/ 30	80	0.030	91	230	53	62±1.5	±2	33	20-22	15-17
SD 71/30	71	0.030	100	250	49	60±1.5	±2	30	22-24	16-18
SD 67/25	67	0.025	110	280	53	53±1.5	±2	28	16-18	
SD 53/ 24	53	0.024	130	325	47	52±1.5	±2	25	17-19	13-15
SD 53/20	53	0.020	137	350	53	42±1.0	±2	22	13-15	
SD 45/18	45	0.018	159	400	51	40±1.0	±2	20		



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Standard grades SDC (calendared)										
SDC 100/50	100	0,05	67	165	44	78±2,0	± 2,0	35	36 -38	33 -35
SDC 90/40	90	0,04	77	200	48	63± 2,0	± 2,0	30		25 -27
SDC 75/36	75	0,036	90	230	46	54±2,0	± 1,0	25		22 -24
SDC 63/36	63	0,036	97	250	40	57± 2,0	± 1,0	23	31 -33	25 -27
SDC 56/36	56	0,036	109	270	37	57±2,0	± 2,0	21	32 -34	28 -30
SDC 59/32	59	0,032	110	280	42	50± 2,0	± 2,0	21	29 -31	21 -23
SDC 56/32	56	0,032	114	300	40	50±2,0	± 2,0	20	30 -32	22 -24
SDC 50/30	50	0,03	125	325	39	47± 2,0	± 1,0	18	29 -31	21 -23
SDC 40/28	40	0,028	146	370	35	46±2,0	± 2,0	16	29 -31	21 -23
SDC 40/25	40	0,025	154	400	38	40± 1,0	± 1,0	15	26 -28	20 -22
SDC 40/23	40	0,023	159	400	40	36±1,0	± 1,0	15	20 -22	15 -17
Heavy grades SDC (calendared)										
SDC 63/40	63	0,04	97	250	37	64±2,0	± 2,0	24	35 -37	31 -33
SDC 42/36	42	0,036	125	325	29	58± 2,0	± 2,0	17	36 -38	32 -34
Ultra thin grades SDC (calendared)										
SDC 90/36	90	0,036	79	200	51	53± 2,0	± 1,0	27	26 -28	20 -22
SDC 71/30	71	0,03	100	250	49	44±2,0	± 1,0	22	22 -24	16 -18
SDC 67/25	67	0,025	110	280	53	34± 1,0	± 1,0	18	16 -18	
SDC 53/24	53	0,024	130	325	47	35±1,0	± 1,0	17	17 -19	13 -15
SDC 53/20	53	0,02	137	350	53	27± 1,0	± 1,0	14	13 -15	
SDC 45/18	45	0,018	159	400	51	25±1,0	± 1,0	13	13 -15	

SD = Standard, SDC = Calendared

A_0 : theoretical, free flow area, through which the filtrate can flow relative to the area that is subject to the flow.

Thicknesses and number of wires are approximate values, dependent upon the wire tolerances. All information given in this table are typical values. Spörl accepts no responsibility for the accuracy of these values. All information is subject to technical changes and further development work.

