

DLC-003 | Wire Diameter & Opening Size Reference

117-row engineering reference for Wire Diameter, Aperture and Open Area relationships.

No.	Mesh / Aperture Designation	Wire Diameter (mm)	Aperture (mm)	Open Area (%)
1	1 in (nom.)	3	25	79.7
2	1 in (nom.)	2	25	85.7
3	20 mm Aperture	2	20	82.6
4	3/4 in (nom.)	2	18.8	81.7
5	5/8 in (nom.)	2	15.8	78.8
6	1/2 in (nom.)	2	12.7	74.6
7	2	2.03	10.67	70.6
8	2	1.63	11.07	76.0
9	3	1.63	6.84	65.2
10	3	1.22	7.25	73.3
11	4	1.63	4.72	55.3
12	4	1.22	5.13	65.3
13	4	0.91	5.44	73.4
14	5	1.22	3.86	57.7
15	5	0.91	4.17	67.4
16	5	0.81	4.27	70.7
17	5	0.71	4.37	74.0
18	6	1.22	3.01	50.6
19	6	0.91	3.32	61.6
20	6	0.81	3.42	65.4
21	6	0.71	3.52	69.2
22	6	0.61	3.62	73.2
23	7	0.71	2.92	64.7
24	7	0.61	3.02	69.2
25	8	0.91	2.27	51.0
26	8	0.81	2.37	55.5
27	8	0.71	2.47	60.3
28	8	0.66	2.52	62.8
29	8	0.61	2.57	65.3
30	8	0.56	2.62	67.9
31	10	0.91	1.63	41.2
32	10	0.81	1.73	46.4
33	10	0.71	1.83	51.9
34	10	0.66	1.88	54.8
35	10	0.61	1.93	57.7
36	10	0.56	1.98	60.8
37	10	0.51	2.03	63.9
38	10	0.46	2.08	67.1
39	11	0.51	1.8	60.7



No.	Mesh / Aperture Designation	Wire Diameter (mm)	Aperture (mm)	Open Area (%)
40	12	0.81	1.31	38.2
41	12	0.71	1.41	44.2
42	12	0.61	1.51	50.7
43	12	0.56	1.56	54.1
44	12	0.51	1.61	57.7
45	12	0.46	1.66	61.3
46	12	0.42	1.7	64.3
47	14	0.71	1.1	36.9
48	14	0.61	1.2	44.0
49	14	0.56	1.25	47.7
50	14	0.51	1.3	51.6
51	14	0.46	1.35	55.6
52	14	0.44	1.37	57.3
53	14	0.42	1.39	59.0
54	16	0.71	0.88	30.6
55	16	0.61	0.98	38.0
56	16	0.56	1.03	42.0
57	16	0.51	1.08	46.1
58	16	0.46	1.13	50.5
59	16	0.42	1.17	54.1
60	16	0.38	1.21	57.9
61	18	0.56	0.85	36.3
62	18	0.51	0.9	40.7
63	18	0.46	0.95	45.4
64	18	0.42	0.99	49.3
65	18	0.38	1.03	53.4
66	20	0.51	0.76	35.8
67	20	0.46	0.81	40.7
68	20	0.42	0.85	44.8
69	20	0.38	0.89	49.1
70	20	0.34	0.93	53.6
71	20	0.31	0.96	57.1
72	25	0.31	0.71	48.5
73	30	0.38	0.47	30.6
74	30	0.34	0.51	36.0
75	30	0.31	0.54	40.4
76	30	0.29	0.56	43.4
77	30	0.274	0.573	45.8
78	30	0.253	0.594	49.2



No.	Mesh / Aperture Designation	Wire Diameter (mm)	Aperture (mm)	Open Area (%)
79	30	0.233	0.614	52.5
80	30	0.213	0.634	56.0
81	35	0.213	0.51	49.8
82	35	0.193	0.53	53.7
83	35	0.172	0.551	58.1
84	40	0.253	0.382	36.2
85	40	0.233	0.402	40.1
86	40	0.213	0.422	44.2
87	40	0.193	0.442	48.5
88	40	0.172	0.463	53.2
89	50	0.233	0.275	29.3
90	50	0.213	0.295	33.7
91	50	0.193	0.315	38.4
92	50	0.172	0.336	43.7
93	50	0.152	0.356	49.1
94	60	0.213	0.21	24.6
95	60	0.193	0.23	29.6
96	60	0.172	0.251	35.2
97	60	0.152	0.271	41.0
98	70	0.152	0.211	33.8
99	70	0.121	0.242	44.4
100	80	0.172	0.146	21.1
101	80	0.152	0.166	27.2
102	80	0.142	0.176	30.6
103	80	0.132	0.185	34.1
104	80	0.121	0.197	38.4
105	100	0.111	0.143	31.7
106	100	0.101	0.153	36.3
107	120	0.091	0.121	32.6
108	120	0.081	0.131	38.2
109	150	0.061	0.108	40.8
110	180	0.051	0.09	40.7
111	200	0.051	0.076	35.8
112	250	0.051	0.051	25.0
113	250	0.041	0.061	35.8
114	300	0.041	0.044	26.8
115	325	0.035	0.043	30.4
116	400	0.03	0.034	28.2
117	500	0.025	0.026	26.0

Reference values reproduced from the PEL-201 dataset. Open Area is geometric reference data and does not by itself define flow, pressure drop, filtration efficiency, tolerance, inspection acceptance or lot-specific certification.

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