Circular Screens Inc.

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Particle Size to Screen Mesh Conversion Chart

Tensile Bolt Cloth				
Mesh TBC	Opening Inches	Opening Microns	Wire Dia.	% Open Area
14	.0620	1575	.0090	76.4%
16	.0535	1359	.0090	73.3%
18	.0466	1184	.0090	70.2%
20	.0410	1041	.0090	67.2%
22	.0380	965	.0075	69.7%
24	.0342	869	.0075	67.2%
26	.0310	787	.0075	64.8%
28	.0282	716	.0075	62.4%
30	.0268	681	.0065	64.8%
32	.0248	630	.0065	62.7%
34	.0229	582	.0065	60.7%
36	.0213	541	.0065	58.7%
38	.0198	503	.0065	56.7%
40	.0185	470	.0065	54.8%
42	.0183	465	.0055	59.1%
44	.0172	437	.0055	57.4%
46	.0162	411	.0055	55.6%
48	.0153	389	.0055	54.2%
50	.0145	368	.0055	52.6%
52	.0137	348	.0055	51.0%
54	.0130	330	.0055	49.4%
58	.0127	323	.0045	54.6%
60	.0122	310	.0045	53.3%
62	.0116	295	.0045	51.7%
64	.0111	282	.0045	50.7%
70	.0106	269	.0037	54.9%
72	.0102	259	.0037	53.8%
74	.0098	249	.0037	52.7%
76	.0095	241	.0037	51.7%
78	.0091	231	.0037	50.6%
80	.0088	224	.0037	49.6%
84	.0084	213	.0035	49.8%
88	.0079	201	.0035	47.9%
90	.0076	193	.0035	47.8%
94	.0071	180	.0035	45.0%
105	.0065	165	.0030	46.9%
120	.0058	147	.0025	47.3%
145	.0047	119	.0022	46.4%
165	.0042	107	.0019	47.1%
200	.0034	86	.0016	46.2%
230	.0029	74	.0014	46.0%
300	.0022	56	.0012	42.0%

Market Grade				
Mesh MG	Opening Inches	Opening Microns	Wire Dia.	% Open Area
2	.4370	11100	.0630	76.4%
3	.2790	7087	.0540	70.1%
4	.2023	5138	.0475	65.9%
4	.1870	4750	.0630	56.0%
5	.1590	4039	.0410	63.2%
6	.1318	3348	.0348	62.7%
7	.1080	2743	.0350	57.2%
8	.0964	2449	.0286	60.2%
10	.0742	1885	.0258	56.3%
11	.0730	1854	.0180	64.5%
12	.0603	1532	.0230	51.8%
14	.0510	1295	.0204	51.0%
16	.0445	1130	.0181	50.7%
18	.0386	980	.0173	48.3%
20	.0340	864	.0162	46.2%
24	.0277	704	.0140	44.2%
30	.0203	516	.0128	37.1%
35	.0176	447	.0118	37.9%
40	.0150	381	.0104	36.0%
50	.0110	279	.0090	30.3%
60	.0092	234	.0075	30.5%
80	.0070	178	.0055	31.4%
100	.0055	140	.0045	30.3%
120	.0046	117	.0037	30.5%
150	.0041	104	.0026	37.9%
170	.0035	89	.0024	35.4%
200	.0029	74	.0021	33.6%
250	.0024	61	.0016	36.0%
270	.0021	53	.0016	32.0%
325	.0017	43	.0014	30.5%
400	.0015	38	.0010	36.0%
500	.0010	25	.0010	25.0%
635	.0008	20	.0008	25.0%

Clear Opening			
Clear Open	Wire Dia.	% Open Area	
1.0000	.105	81.9%	
.7500	.063	82.0%	
.8333	.063	82.5%	
.5625	.063	81.0%	
.5000	.047	86.0%	
.4375	.047	79.3%	
.3750	.047	79.2%	
.3125	.047	68.0%	
.2500	.047	70.9%	
.1875	.041	57.3%	
.1250	.041	56.7%	

U.S. Std. Sieve	
Closest Std Sieve	Opening In Inches
3.5	.2205
4	.1870
5	.1575
6	.1319
7	.1102
8	.0929
10	.0787
12	.0669
14	.0551
16	.0465
18	.0394
20	.0335
25	.0280
30	.0236
35	.0197
40	.0167
45	.0140
50	.0118
60	.0098
70	.0083
80	.0071
100	.0059
120	.0049
140	.0042
170	.0035
200	.0030
230	.0025
270	.0021
325	.0018
400	.0015
500	.0010
635	.0008

Mill Grade				
Mesh Ml Gd	Opening Inches	Opening Microns	Wire Dia.	% Open Area
2	.4460	11328	.0540	79.6%
3	.2923	7424	.0410	76.7%
4	.2150	5461	.3500	74.0%
5	.1680	4267	.0320	70.6%
6	.1387	3523	.0280	69.6%
7	.1149	2918	.0280	64.8%
8	.1000	2540	.0250	64.0%
9	.0881	2238	.0230	62.7%
10	.0800	2032	.0200	64.0%
11	.0709	1801	.0200	61.0%
12	.0653	1659	.0180	60.8%
14	.0544	1382	.0170	57.2%
16	.0465	1181	.0160	55.4%
18	.0406	1031	.0150	53.4%
20	.0360	914	.0140	51.8%
22	.0320	813	.0135	49.6%
24	.0287	729	.0130	47.4%
26	.0275	699	.0110	51.1%
28	.0257	653	.0100	51.8%
30	.0238	605	.0095	51.0%
32	.0223	566	.0090	50.9%
34	.0204	518	.0090	48.1%
36	.0188	478	.0090	45.8%
38	.0178	452	.0085	45.8%
40	.0165	419	.0085	43.6%
45	.0142	361	.0080	40.8%
50	.0125	318	.0075	39.1%
55	.0112	284	.0070	37.9%
60	.0102	259	.0065	37.5%

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