Particle Size To Screen Mesh Conversion Chart

This table is designed to guide you in deciding what mesh type is appropriate for your application. While a specific mesh can have the same number of wires/inch as another, a different wire diameter will alter the aperture as well as the % open area. For instance, one of the tradeoffs between choosing a TBC grade over a Market Grade with the same aperture is a greater throughput but at the same time potentially shorter effective screen life.

| U | US Standard | | | Tensile Bolting Cloth | | | | | Mill Grade | | | | | | Market Grade | | | | | Clear Opening | | | |
|---------------|----------------|------------|-------------|-----------------------|------|--------------|----------------|------------------|------------|-------|--------------|----------------|------------------|--------|--------------|--------------|----------------|---------------|--------------|----------------|--|--|--|
| Std. Sieve | Open Inches | Open µm | Mesh TBC | Oper Inches | | Wire Dia. | % Open Area | Mesh Mill Gr. | Openin | д ТВС | Wire Dia. | % Open Area | Mesh Mrk. Gr. | Openin | g TBC | Wire Dia. | % Open Area | Clear Open | Wire Dia. | % Open Area | | | |
| | | | | | | | | | | | | | | | | | | 1.0000 | .105 | 81.9% | | | |
| | | | | | | | | | | | | | | | | | | .7500 | .063 | 82.0% | | | |
| | | | | | | | | | | | | | | | | | | .6250 | .063 | 82.5% | | | |
| | | | | | | | | | | | | | | | | | | .5625 | .063 | 81.0% | | | |
| | | | | | | | | | | | | | | | | | | .5000 | .0470 | 86.0% | | | |
| | | | | | | | | 2 | .4460 | 11328 | .0540 | 79.6% | 2 | .4370 | 11100 | .0630 | 76.4% | .4375 | .0470 | 79.3% | | | |
| | | | | | | | | | | | | | | | | | | .3750 | .0470 | 79.2% | | | |
| | | | | | | | | 3 | .2923 | 7424 | .0410 | 76.7% | | | | | | .3125 | .0470 | 68.0% | | | |
| | | | | | | | | | | | | | 3 | .2790 | 7087 | .0540 | 70.1% | .2500 | .0470 | 70.9% | | | |
| 3.5 | .2205 | 5600 | | | | | | 4 | .2150 | 5461 | .3500 | 74.0% | 4 | .2030 | 5165 | .0470 | 65.9% | | | | | | |
| 4 | .1870 | 4750 | | | | | | | | | | | 4 | .1870 | 4750 | .0630 | 56.0% | .1875 | .041 | 57.3% | | | |
| 5 | .1575 | 4000 | | | | | | 5 | .1680 | 4267 | .0320 | 70.6% | 5 | .1590 | 4039 | .0410 | 63.2% | | | | | | |
| 6 | .1319 | 3053 | | | | | | 6 | .1387 | 3523 | .0280 | 69.6% | 6 | .1317 | 3350 | .0350 | 62.7% | .1250 | .041 | 56.7% | | | |
| 7 | .1102 | 2800 | | | | | | 7 | .1149 | 2918 | .0280 | 64.8% | 7 | .1080 | 2743 | .0350 | 57.2% | | | | | | |
| 8 | .0929 | 2360 | | | | | | 8 | .1000 | 2540 | .0250 | 64.0% | 8 | .0970 | 2468 | .0280 | 60.2% | | | | | | |
| | | | | | | | | 9 | .0881 | 2238 | .0230 | 62.7% | | | | | | | | | | | |
| 10 | .0787 | 2000 | | | | | | 10 | .0800 | 2032 | .0200 | 64.0% | 10 | .0750 | 1908 | .0250 | 56.3% | | | | | | |
| | | | | | | | | 11 | .0709 | 1801 | .0200 | 61.0% | 11 | .0730 | 1854 | .0180 | 64.5% | | | | | | |
| 12 | .0669 | 1700 | 14 | .0620 | 1575 | .0090 | 76.4% | 12 | .0653 | 1659 | .0180 | 60.8% | 12 | .0603 | 1532 | .0230 | 51.8% | | | | | | |
| 14 | .0551 | 1400 | 16 | .0535 | 1359 | .0090 | 73.3% | 14 | .0544 | 1382 | .0170 | 57.2% | 14 | .0514 | 1308 | .0200 | 51.0% | | | | | | |
| 16 | .0465 | 1180 | 18 | .0466 | 1184 | .0090 | 70.2% | 16 | .0465 | 1181 | .0160 | 55.4% | 16 | .0445 | 1132 | .0180 | 50.7% | | | | | | |
| | | | 20 | .0410 | 1041 | .0090 | 67.2% | 18 | .0406 | 1031 | .0150 | 53.4% | | | | | | | | | | | |
| 18 | .0394 | 1000 | 22 | .0380 | 965 | .0075 | 69.7% | | | | | | 18 | .0386 | 982 | .0170 | 48.3% | | | | | | |
| 20 | .0335 | 850 | 24 | .0342 | 869 | .0075 | 67.2% | 20 | .0360 | 914 | .0140 | 51.8% | 20 | .0340 | 865 | .0160 | 46.2% | | | | | | |
| | | | 26 | .0310 | 787 | .0075 | 64.8% | 22 | .0320 | 813 | .0135 | 49.6% | | | | | | | | | | | |
| | | | | | | | | 24 | .0287 | 729 | .0130 | 47.4% | | | | | | | | | | | |
| 25 | .0280 | 710 | 28 | .0282 | 716 | .0075 | 62.4% | 26 | .0275 | 699 | .0110 | 51.1% | 24 | .0277 | 704 | .0140 | 44.2% | | | | | | |
| | | | 30 | .0268 | 681 | .0065 | 64.8% | | 0055 | 650 | 0105 | 51.00/ | | | | | | | | | | | |
| | | | 32 | .0248 | 630 | .0065 | 62.7% | 28 | .0257 | 653 | .0100 | 51.8% | | | | | | | | | | | |
| | 00000 | | 34 | .0229 | 582 | .0065 | 60.7% | 30 | .0238 | 605 | .0095 | 51.0% | | | | | | | | | | | |
| 30 | .0236 | 600 | 26 | 0212 | 5.41 | 0005 | F0 70/ | 22 | 0222 | 566 | 0000 | 50.00/ | 20 | 0212 | 542 | 0120 | 41.00/ | | | | | | |
| | | | 36 | .0213 | 541 | .0065 | 58.7% | 32 | .0223 | 566 | .0090 | 50.9% | 30 | .0213 | 542 | .0120 | 41.0% | | | | | | |
| | | | 38 | .0198 | 503 | .0065 | 56.7% | 34 | .0204 | 518 | .0090 | 48.1% | | | | | | | | | | | |

Contact the Gerard Daniel customer service team for help choosing the right mesh for your application!

www.gerarddaniel.com 800.232.3332 marketing@gerarddaniel.com



| U | S Standard | | | Tensile Bolting Cloth | | | | Mill Grade | | | | | Market Grade | | | | | | Clear Opening | | | |
|---------------|----------------|------------|-------------|-----------------------|------------------|--------------|----------------|------------------|---------|------|--------------|----------------|------------------|---------|-----|--------------|----------------|---------------|---------------|----------------|--|--|
| Std. Sieve | Open Inches | Open µm | Mesh TBC | | ening Microns | Wire Dia. | % Open Area | Mesh Mill Gr. | Opening | твс | Wire Dia. | % Open Area | Mesh Mrk. Gr. | Opening | твс | Wire Dia. | % Open Area | Clear Open | Wire Dia. | % Oper Area | | |
| 35 | .0197 | 500 | | | | | | | | | | | | | | | | | | | | |
| | | | 40 | .0185 | 470 | .0065 | 54.8% | 36 | .0188 | 478 | .0090 | 45.8% | | | | | | | | | | |
| | | | 42 | .0183 | 465 | .0055 | 59.1% | 38 | .0178 | 452 | .0090 | 45.8% | | | | | | | | | | |
| | | | 43 | .0188 | 476 | .0045 | 65.0% | | | | .0085 | 45.8% | | | | | | | | | | |
| | | | 43 | .0183 | 464 | .0050 | 61.6% | | | | | | | | | | | | | | | |
| | | | 44 | .0172 | 437 | .0055 | 57.4% | | | | | | 35 | .0176 | 448 | .0110 | 37.9% | | | | | |
| | | | 46 | .0162 | 411 | .0055 | 55.8% | 40 | .0165 | 419 | .0085 | 43.6% | | 10210 | | 43.6% | 011070 | | | | | |
| 40 | .0167 | 425 | | | | | | | | | | | | | | | | | | - | | |
| | 10101 | 120 | 48 | .0153 | 389 | .0055 | 54.2% | | | | | | 40 | .0150 | 382 | .0100 | 36.0% | | | | | |
| | | | 50 | .0145 | 368 | .0055 | 52.6% | 45 | .0142 | 361 | .0080 | 40.8% | | 10100 | 002 | 10100 | 001070 | | | | | |
| | | | 52 | .0143 | 348 | .0055 | 51.0% | -13 | .0142 | 501 | .0000 | 40.070 | | | | | | | | | | |
| 45 | .0140 | 355 | 52 | .0151 | 540 | .0055 | 51.070 | | | | | | | | | | | | | | | |
| 73 | .0140 | 555 | 54 | .0130 | 220 | 0055 | 40.40% | | | | | | | | | | | | | | | |
| | | | _ | | 330 | .0055 | 49.4% | | | | | | | | | | | | | | | |
| | | | 56 | .0139 | 352 | .0040 | 60.2% | F0 | 0105 | 21.0 | 0075 | 20.10/ | | | | | | | | | | |
| | | | 58 | .0127 | 323 | .0045 | 54.6% | 50 | .0125 | 318 | .0075 | 39.1% | - | | | | | | | | | |
| | | | 60 | .0122 | 310 | .0045 | 53.3% | | | | | | | | | | | | | | | |
| | | | 62 | .0116 | 295 | .0045 | 51.7% | | | | | | | | | | | | | | | |
| 50 | .0118 | 300 | | | | | | | | | | | | | | | | | | | | |
| | | | 64 | .0111 | 282 | .0045 | 50.7% | 55 | .0112 | 284 | .0070 | 37.9% | 50 | .0110 | 279 | .0090 | 30.3% | | | | | |
| | | | 66 | .0117 | 296 | .0035 | 59.1% | | | | | | | | | | | | | | | |
| | | | 66 | .0107 | 271 | .0045 | 49.4% | | | | | | | | | | | | | | | |
| | | | 70 | .0106 | 269 | .0037 | 54.9% | | | | | | | | | | | | | | | |
| | | | 72 | .0102 | 259 | .0037 | 53.8% | 60 | .0102 | 259 | .0065 | 37.5% | | | | | | | | | | |
| | | | 74 | .0098 | 249 | .0037 | 52.7% | | | | | | | | | | | | | | | |
| 60 | .0098 | 250 | | | | | | | | | | | | | | | | | | | | |
| | | | 76 | .0095 | 241 | .0037 | 51.7% | | | | | | | | | | | | | | | |
| | | | 78 | .0091 | 231 | .0037 | 50.6% | | | | | | 60 | .0092 | 234 | .0075 | 30.5% | | | | | |
| | | | 80 | .0088 | 224 | .0037 | 49.6% | | | | | | | | | | | | | | | |
| | | | 84 | .0084 | 213 | .0035 | 49.8% | | | | | | | | | | | | | | | |
| 70 | .0083 | 212 | | | | | | | | | | | | | | | | | | | | |
| | | | 88 | .0079 | 201 | .0035 | 57.9% | | | | | | | | | | | | | | | |
| | | | 90 | .0076 | 193 | .0035 | 47.8% | | | | | | | | | | | | | | | |
| 80 | .0071 | 180 | 94 | .0071 | 180 | .0035 | 45.0% | | | | | | 80 | .0070 | 178 | .0055 | 31.4% | | | | | |
| | | | 105 | .0065 | 165 | .0030 | 46.9% | | | | | | | | | | | | | | | |
| 100 | .0059 | 150 | 120 | .0058 | 147 | .0025 | 47.3% | | | | | | 100 | .0055 | 140 | .0045 | 30.3% | | | | | |
| | | | 135 | .0051 | 130 | .0023 | 47.5% | | | | | | | | | | | | | | | |
| 120 | .0049 | 125 | 145 | .0047 | 119 | .0022 | 46.4% | | | | | | 120 | .0047 | 120 | .0036 | 30.5% | | | | | |
| 140 | .0042 | 106 | 165 | .0042 | 107 | .0019 | 47.1% | | | | | | 150 | .0041 | 104 | .0026 | 37.9% | | | | | |
| 170 | .0035 | 90 | 200 | .0034 | 86 | .0016 | 46.2% | | | | | | 170 | .0035 | 89 | .0024 | 35.4% | | | | | |
| 200 | .0030 | 75 | 230 | .0029 | 74 | .0014 | 46.0% | | | | | | 200 | .0029 | 74 | .0021 | 33.6% | | | | | |
| 230 | .0025 | 63 | | | | | | | | | | | 250 | .0024 | 61 | .0016 | 36.0% | | | | | |
| 270 | .0021 | 53 | 300 | .0022 | 56 | .0012 | 42.0% | | | | | | 270 | .0021 | 53 | .0016 | 32.0% | | | | | |
| 325 | .0018 | 45 | | | | | | | | | | | 325 | .0017 | 43 | .0014 | 30.5% | | | | | |
| 400 | .0015 | 38 | | | | | | | | | | | 400 | .0015 | 38 | .0100 | 36.0% | | | | | |
| 500 | .0010 | 25 | | | | | | | | | | | 500 | .0010 | 25 | .0100 | 25.0% | | | | | |
| 635 | .0010 | 20 | | | | | | | | | | | 635 | .0010 | | .0010 | 25.0% | | | | | |
| 000 | .0008 | 20 | L | | | | | | | | | | 035 | .0008 | 20 | .0008 | 23.0% | | | | | |

www.gerarddaniel.com | 800.232.3332 | marketing@gerarddaniel.com

