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


| US Standard |  |  |  | Tensile Bolting Cloth |  |  |  | Mill Grade |  |  |  |  | Market Grade |  |  |  |  | Clear Opening |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Std. } \\ & \text { Sieve } \end{aligned}$ | Open Inches | Open $\mu \mathrm{m}$ | Mesh TBC | $\begin{array}{r} \text { Op } \\ \text { Inches } \end{array}$ | ning Microns | Wire Dia. | $\begin{aligned} & \text { \% Open } \\ & \text { Area } \end{aligned}$ | Mesh Mill Gr. | Opening |  | Wire <br> Dia. | $\begin{aligned} & \text { \% Open } \\ & \text { Area } \end{aligned}$ | $\begin{aligned} & \text { Mesh } \\ & \text { Mrk. Gr. } \end{aligned}$ | Opening |  | Wire Dia. | $\begin{gathered} \text { \% Open } \\ \text { Area } \end{gathered}$ | $\begin{aligned} & \text { Clear } \\ & \text { Open } \end{aligned}$ | Wire Dia. | $\begin{aligned} & \text { \% Open } \\ & \text { Area } \end{aligned}$ |
| 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\% |  |  |  | 43.6\% |  |  |  |  |
| 40 | . 0167 | 425 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 48 | . 0153 | 389 | . 0055 | 54.2\% |  |  |  |  |  | 40 | . 0150 | 382 | . 0100 | 36.0\% |  |  |  |
|  |  |  | 50 | . 0145 | 368 | . 0055 | 52.6\% | 45 | . 0142 | 361 | . 0080 | 40.8\% |  |  |  |  |  |  |  |  |
|  |  |  | 52 | . 0137 | 348 | . 0055 | 51.0\% |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45 | . 0140 | 355 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 54 | . 0130 | 330 | . 0055 | 49.4\% |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 56 | . 0139 | 352 | . 0040 | 60.2\% |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 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 | . 0010 | 25.0\% |  |  |  |
| 635 | . 0008 | 20 |  |  |  |  |  |  |  |  |  |  | 635 | . 0008 | 20 | . 0008 | 25.0\% |  |  |  |

