| Mesh | SWG | Diameters of Wire | | Size of Opening | | | Approx. Percentage Open Area |
|---|---|---|---|---|---|---|---|
| | | Inch | MM | Inch | MM | Micron | |
| 4 | 12 | 0.104 | 2.640 | 0.146 | 3.710 | 3,710 | 34.14 |
| 4 | 13 | 0.092 | 2.340 | 0.158 | 4.010 | 4,010 | 39.98 |
| 4 | 14 | 0.080 | 2.030 | 0.170 | 4.320 | 4.320 | 46,28 |
| 4 | 15 | 0.072 | 1.830 | 0.178 | 4.520 | 4,520 | 50.67 |
| 4 | 16 | 0.064 | 1.630 | 0.186 | 4.720 | 4,720 | 55.25 |
| 4 | 17 | 0.056 | 1.430 | 0.194 | 4.920 | 4,920 | 60.03 |
| 4 | 18 | 0.048 | 1.220 | 0.202 | 5.130 | 5,130 | 65.27 |
| 5 | 14 | 0.080 | 2.030 | 0.120 | 3.050 | 3,050 | 36.05 |
| 5 | 15 | 0.072 | 1.830 | 0.128 | 3.250 | 3,250 | 40.93 |
| 5 | 16 | 0.064 | 1.630 | 0.136 | 3.450 | 3,450 | 46.12 |
| 5 | 17 | 0.056 | 1.430 | 0.144 | 3.650 | 3650 | 51.62 |
| 5 | 18 | 0.048 | 1.220 | 0.152 | 3.860 | 3,860 | 57.74 |
| 5 | 19 | 0.040 | 1.020 | 0.160 | 4.060 | 4,060 | 63.87 |
| 5 | 20 | 0.036 | 0.910 | 0.164 | 4.170 | 4,170 | 67.38 |
| 6 | 16 | 0.064 | 1.630 | 0.102 | 2.603 | 2,603 | 37.82 |
| 6 | 17 | 0.056 | 1.430 | 0.110 | 2.803 | 2,803 | 43.85 |
| 6 | 19 | 0.040 | 1.020 | 0.127 | 3.213 | 3,213 | 57.62 |
| 6 | 20 | 0.036 | 0.910 | 0.131 | 3.323 | 3,323 | 61.63 |
| 6 | 21 | 0.032 | 0.810 | 0.135 | 3.423 | 3,423 | 65.39 |
| 8 | 16 | 0.064 | 1.630 | 0.061 | 1.545 | 1545 | 23.68 |
| 8 | 17 | 0.056 | 1.430 | 0.061 | 1.745 | 1,745 | 30.21 |
| 8 | 18 | 0.048 | 1.220 | 0.077 | 1.955 | 1,955 | 37.91 |
| 8 | 19 | 0.040 | 1.020 | 0.085 | 2.155 | 2,155 | 46.07 |
| 8 | 20 | 0.036 | 0.910 | 0.089 | 2.265 | 2,265 | 50.89 |
| 8 | 21 | 0.032 | 0.810 | 0.093 | 2.365 | 2,365 | 55.48 |
| 8 | 22 | 0.028 | 0.710 | 0.097 | 2.465 | 2,465 | 60.28 |
| 8 | 23 | 0.024 | 0.610 | 0.0101 | 2.565 | 2,565 | 65.27 |
| 8 | 24 | 0.022 | 0.550 | 0.103 | 2.625 | 2,625 | 68.36 |
| 8 | 25 | 0.020 | 0.500 | 0.105 | 2.675 | 2,675 | 70.98 |
| 10 | 20 | 0.036 | 0.910 | 0.064 | 1.630 | 1,630 | 41.18 |
| 10 | 21 | 0.032 | 0.810 | 0.068 | 1.730 | 1,730 | 46.39 |
| 10 | 22 | 0.028 | 0.710 | 0.072 | 1.830 | 1,830 | 51.91 |
| 10 | 23 | 0.024 | 0.610 | 0.076 | 1.930 | 1,930 | 57.74 |
| 10 | 24 | 0.022 | 0.550 | 0.078 | 1.990 | 1,990 | 61.38 |
| 10 | 25 | 0.020 | 0.500 | 0.080 | 2.040 | 2,040 | 64.50 |
| 12 | 22 | 0.028 | 0.710 | 0.055 | 1.407 | 1,407 | 44.16 |
| 12 | 23 | 0.024 | 0.610 | 0.059 | 1.507 | 1,507 | 50.67 |
| 12 | 24 | 0.022 | 0.550 | 0.062 | 1.567 | 1,567 | 54.78 |
| 12 | 25 | 0.020 | 0.500 | 0.064 | 1.617 | 1,617 | 58.34 |
| 12 | 26 | 0.018 | 0.450 | 0.066 | 1.667 | 1,667 | 62.00 |
| 14 | 24 | 0.022 | 0.550 | 0.050 | 1.264 | 1,264 | 48.56 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 14 | 25 | 0.020 | 0.500 | 0.052 | 1.314 | 1,314 | 52.48 |
| 14 | 26 | 0.018 | 0.450 | 0.054 | 1.364 | 1,364 | 56.55 |
| 14 | 27 | 0.016 | 0.400 | 0.056 | 1.414 | 1,414 | 60.77 |
| 14 | 28 | 0.015 | 0.370 | 0.057 | 1.444 | 1,444 | 63.37 |
| 16 | 24 | 0.022 | 0.550 | 0.041 | 1.038 | 1,038 | 42.71 |
| 16 | 25 | 0.020 | 0.500 | 0.043 | 1.088 | 1,088 | 46.93 |
| 16 | 26 | 0.018 | 0.450 | 0.045 | 1.138 | 1,138 | 51.34 |
| 16 | 27 | 0.016 | 0.400 | 0.047 | 1.188 | 1,188 | 55.96 |
| 16 | 29 | 0.013 | 0.340 | 0.049 | 1.248 | 1,248 | 61.75 |
| 16 | 30 | 0.012 | 0.310 | 0.050 | 1.278 | 1,278 | 64.76 |
| 18 | 25 | 0.020 | 0.500 | 0.036 | 0.911 | 911 | 41.69 |
| 18 | 26 | 0.018 | 0.450 | 0.038 | 0.961 | 961 | 46.39 |
| 18 | 27 | 0.016 | 0.400 | 0.040 | 1.011 | 1,011 | 51.34 |
| 18 | 28 | 0.015 | 0.370 | 0.041 | 1.041 | 1,041 | 54.43 |
| 20 | 24 | 0.022 | 0.550 | 0.028 | 0.720 | 720 | 32.14 |
| 20 | 25 | 0.020 | 0.500 | 0.030 | 0.770 | 770 | 36.76 |
| 20 | 26 | 0.018 | 0.450 | 0.032 | 0.820 | 820 | 41.69 |
| 20 | 27 | 0.016 | 0.400 | 0.034 | 0.870 | 870 | 46.93 |
| 20 | 28 | 0.015 | 0.370 | 0.035 | 0.900 | 900 | 50.22 |
| 20 | 29 | 0.013 | 0.340 | 0.037 | 0.930 | 930 | 53.62 |
| 20 | 30 | 0.012 | 0.310 | 0.038 | 0.960 | 960 | 57.14 |
| 24 | 27 | 0.016 | 0.400 | 0.026 | 0.658 | 658 | 38.69 |
| 24 | 28 | 0.015 | 0.370 | 0.027 | 0.688 | 688 | 42.30 |
| 24 | 29 | 0.013 | 0.340 | 0.028 | 0.718 | 718 | 46.07 |
| 24 | 30 | 0.012 | 0.310 | 0.029 | 0.748 | 748 | 50.00 |
| 24 | 32 | 0.011 | 0.270 | 0.031 | 0.788 | 788 | 55.48 |
| 30 | 28 | 0.015 | 0.370 | 0.019 | 0.477 | 477 | 31.70 |
| 30 | 29 | 0.013 | 0.340 | 0.020 | 0.507 | 507 | 35.81 |
| 30 | 30 | 0.012 | 0.310 | 0.021 | 0.537 | 537 | 40.18 |
| 30 | 31 | 0.011 | 0.290 | 0.022 | 0.557 | 557 | 43.23 |
| 30 | 32 | 0.011 | 0.270 | 0.023 | 0.557 | 577 | 46.39 |
| 40 | 32 | 0.011 | 0.270 | 0.014 | 0.365 | 365 | 33.04 |
| 40 | 33 | 0.010 | 0.250 | 0.015 | 0.385 | 385 | 36.76 |
| 40 | 34 | 0.009 | 0.234 | 0.016 | 0.401 | 401 | 39.88 |
| 40 | 35 | 0.008 | 0.210 | 0.017 | 0.425 | 425 | 44.80 |
| 40 | 36 | 0.008 | 0.193 | 0.017 | 0.442 | 442 | 48.45 |
| 50 | 34 | 0.009 | 0.234 | 0.011 | 0.274 | 274 | 29.09 |
| 50 | 35 | 0.008 | 0.210 | 0.012 | 0.298 | 298 | 34.41 |
| 50 | 36 | 0.008 | 0.193 | 0.012 | 0.315 | 315 | 38.45 |
| 50 | 37 | 0.007 | 0.172 | 0.013 | 0.336 | 336 | 43.75 |
| 50 | 38 | 0.006 | 0.152 | 0.014 | 0.356 | 356 | 49.11 |
| 60 | 36 | 0.008 | 0.193 | 0.009 | 0.230 | 230 | 29.60 |
| 60 | 37 | 0.007 | 0.172 | 0.010 | 0.251 | 251 | 32.25 |
| 60 | 38 | 0.006 | 0.152 | 0.011 | 0.271 | 271 | 41.08 |
| 80 | 38 | 0.006 | 0.152 | 0.007 | 0.166 | 166 | 21.17 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 80 | 39 | 0.005 | 0.130 | 0.007 | 0.188 | 188 | 34.88 |
| 80 | 40 | 0.005 | 0.122 | 0.008 | 0.196 | 196 | 37.91 |
| 80 | 41 | 0.004 | 0.112 | 0.008 | 0.206 | 206 | 41.89 |
| 80 | 42 | 0.004 | 0.102 | 0.008 | 0.216 | 216 | 46.07 |
| 100 | 42 | 0.004 | 0.102 | 0.006 | 0.152 | 152 | 35.81 |
| 100 | 43 | 0.004 | 0.091 | 0.006 | 0.163 | 163 | 41.18 |
| 100 | 44 | 0.003 | 0.081 | 0.007 | 0.173 | 173 | 46.39 |
| 120 | 44 | 0.003 | 0.081 | 0.005 | 0.131 | 131 | 38.11 |
| 150 | 45 | 0.003 | 0.071 | 0.004 | 0.098 | 98 | 33.72 |
| 150 | 45.5 | 0.002 | 0.063 | 0.004 | 0.106 | 106 | 39.43 |
| 200 | 47 | 0.002 | 0.050 | 0.003 | 0.077 | 77 | 36.76 |
| 250 | 48 | 0.002 | 0.040 | 0.002 | 0.062 | 62 | 36.76 |
| 300 | 48 | 0.002 | 0.040 | 0.002 | 0.045 | 45 | 27.83 |
| 325 | 48.5 | 0.001 | 0.035 | 0.002 | 0.043 | 43 | 30.49 |
| 400 | 49.5 | 0.001 | 0.028 | 0.001 | 0.036 | 36 | 31.25 |
| 500 | 50 | 0.001 | 0.025 | 0.001 | 0.026 | 26 | 25.79 |

| Weave Type | Mesh Count | Warp Wire In Inches | Shute Wire In Inches | Absolute Micron Rating | Nominal Micron Rating |
|---|---|---|---|---|---|
| PDW | 8X20 | 0.014 | 0.0126 | 330-350 | 280 |
| PDW | 12X64 | 0.024 | 0.0165 | 270-290 | 200 |
| PDW | 14X88 | 0.02 | 0.013 | 220-240 | 150 |
| PDW | 16X80 | 0.0169 | 0.0134 | 225-235 | 140 |
| PDW | 24X110 | 0.015 | 0.01 | 115-125 | 80 |
| PDW – TWIN WARP | 24X128 | 2 X .010 | 0.004 | 110-120 | 75 |
| PDW | 30X150 | 0.009 | 0.007 | 110-112 | 63 |
| PDW – TWIN WARP | 30X150 | 2 X .009 | .007″ | 95-113 | 60 |
| PDW | 40X200 | 0.007 | 0.0055 | 70-75 | 55 |
| PDW | 50X250 | 0.0055 | 0.0045 | 58-63 | 40 |
| PDW | 80X400 | 0.005 | 0.003 | 40-45 | 35 |
| TDW | 30X250 | 0.01 | 0.008 | 110-120 | 53 |
| TDW | 80X700 | 0.004 | 0.003 | 35-40 | 25 |
| TDW | 120X400 | 0.004 | 0.0025 | 50-55 | 40 |
| TDW | 165X800 | 0.0028 | 0.002 | 25-28 | 15 |
| TDW | 200X600 | 0.0024 | 0.0018 | 30 | 20 |

| | | | | | |
|---|---|---|---|---|---|
| TDW | 165X1400 | 0.0028 | 0.0016 | 16-20 | 10 |
| TDW | 200X1400 | 0.0028 | 0.0016 | 12-14 | 5 |
| TDW | 325X2300 | 0.0014 | 0.001 | 8-9 | 2 |
| TDW | 400X2800 | 0.001 | 0.0008 | 6-7 | 1 |

## Various Grades of SS Material Used in Wire Mesh

| Grades | C Max | Mn Max | P Max | S Max | Si Max | Cr Min/Max | Ni Max | MO Max |
|---|---|---|---|---|---|---|---|---|
| 304 | 0.08 | 2.00 | 0.05 | 0.03 | 1.00 | 18-20 | 8-10 | – |
| 304L | 0.03 | 2.00 | 0.05 | 0.03 | 1.00 | 16-18 | 8-10 | – |
| 316 | 0.08 | 2.00 | 0.05 | 0.03 | 1.00 | 16-18 | 10-14 | 2-2.25 |
| 316L | 0.03 | 2.00 | 0.05 | 0.03 | 1.00 | 16-18 | 10-14 | 2-2.25 |