# Mesh & Micron Sizes

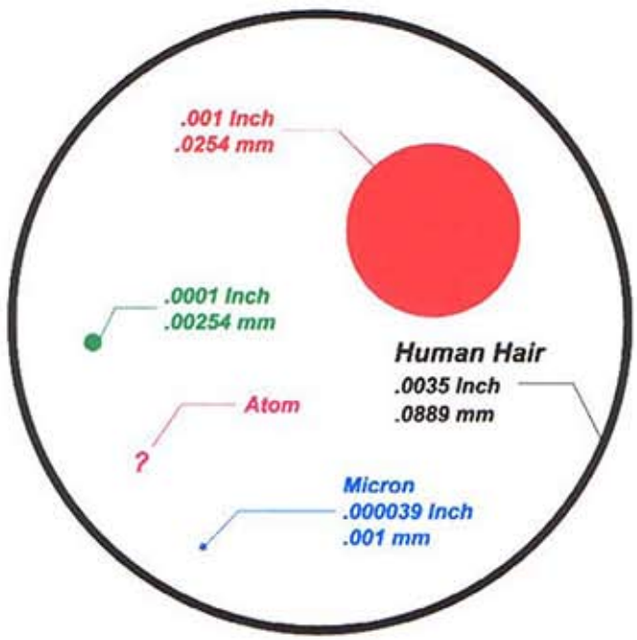
**What is a micron?** A micron is another measurement we use for measuring particle size. A micron is one-millionth of a meter or one twenty-five thousandth of an inch.

**What does mesh size mean?** Figuring out mesh sizes is simple. All you do is count the number of openings in one inch of screen (in the United States, anyway.) The number of openings is the mesh size. So a 4 mesh screen means there are four little squares across one linear inch of screen. A 100 mesh screen has 100 openings, and so on. Note: therefore that as the number describing the mesh size increases, the size of the particles decreases. Higher numbers = finer powder. Mesh size is not a precise measurement of particle size. Screens can be made with different thicknesses of wire. The thicker the wires, the smaller the particle passing through that screen, and vice versa.

**How fine do screens get?** That depends on the wire thickness. But the supplier of our screens does not offer any screens finer than 500 mesh. If you think about it, the finer the weave, the closer the wires get together, eventually leaving no space between them at all. So, beyond 325-400 mesh, we usually describe particle size in "microns."

## MESH TO MICRON CONVERSION CHART

| U.S. MESH | MICRONS | INCHES | MILLIMETERS |
|---|---|---|---|
| 3 | 6730 | 0.2650 | 6.730 |
| 4 | 4760 | 0.1870 | 4.760 |
| 5 | 4000 | 0.1570 | 4.000 |
| 6 | 3360 | 0.1320 | 3.360 |
| 7 | 2830 | 0.1110 | 2.830 |
| 8 | 2380 | 0.0937 | 2.380 |
| 10 | 2000 | 0.0787 | 2.000 |
| 12 | 1680 | 0.0661 | 1.680 |
| 14 | 1410 | 0.0555 | 1.410 |
| 16 | 1190 | 0.0469 | 1.190 |
| 18 | 1000 | 0.0394 | 1.000 |
| 20 | 841 | 0.0331 | 0.841 |
| 25 | 707 | 0.0280 | 0.707 |
| 30 | 595 | 0.0232 | 0.595 |
| 35 | 500 | 0.0197 | 0.500 |
| 40 | 400 | 0.0165 | 0.400 |
| 45 | 354 | 0.0138 | 0.354 |
| 50 | 297 | 0.0117 | 0.297 |
| 60 | 250 | 0.0098 | 0.250 |
| 70 | 210 | 0.0083 | 0.210 |
| 80 | 177 | 0.0070 | 0.177 |
| 100 | 149 | 0.0059 | 0.149 |
| 120 | 125 | 0.0049 | 0.125 |
| 140 | 105 | 0.0041 | 0.105 |
| 170 | 88 | 0.0035 | 0.088 |
| 200 | 74 | 0.0029 | 0.074 |
| 230 | 63 | 0.0024 | 0.063 |
| 270 | 53 | 0.0021 | 0.053 |
| 325 | 44 | 0.0017 | 0.044 |
| 400 | 37 | 0.0015 | 0.037 |




Magnified 2000 times size