

MESH-TO-MICRON CONVERSION CHART

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

Particle size in micrometres (μm) refers to the average diameter of the resin particles. The size distribution around this value depends on the resin in question. U.S. mesh is a measurement of the number of openings that fit per inch of the screen used to separate particles of different sizes. As an example, for a U.S. mesh 3 there are three openings per inch of the screen (each 6730 μm wide), meaning that it will let through particles of a size much larger than e.g. a 100-mesh screen (which has a hundred openings per inch, each 149 μm wide).

The open mesh filter of the RBR is 104 μm , corresponding to 140 openings per square inch of the filter. The size distribution of the particles used in the RBR should thus not fall below 104 μm , or 140 U.S. mesh.