

Particle (Micron) Size Chart for all Metals used in a Firework Device

All firework applications submitted for approval to the U.S. Department of Transportation will need to describe the particle (micron) size for any metal composition used in a device. The following chart provides the conversion for standard entries from mesh to microns.

Example : Titanium is required to be larger than 100 mesh in a 1.4G device – the equivalent conversion would be 149 microns.

US MESH	INCHES	MICRONS	MILLIMETERS
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

NOTE(s):

**** Titanium - particle size must be larger than 149 microns

**** Particle size must be provided for all metals in the Fireworks (EX) Approval Application