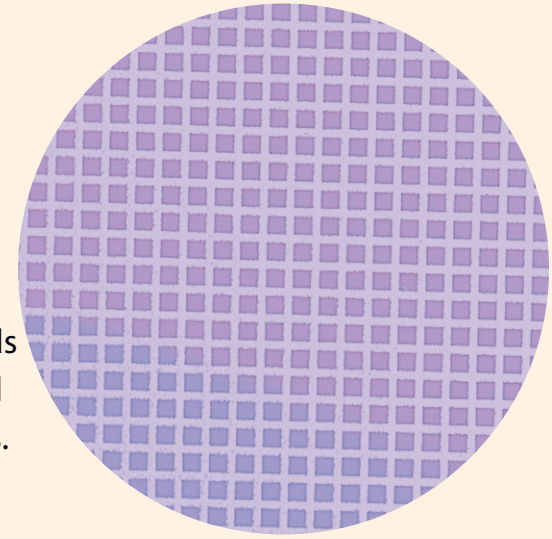
ELECTROFORMED MESH (E-FAB)



Thin Metal Parts (TMP) offers high-precision E-Fab Mesh, manufactured with the proprietary electroforming process. E-Fab Mesh achieves the highest standards for optical light transmission (OLT), as well as for gas and liquid filtration applications.

Advantages

Thickness: E-Fab Mesh is available in a wide range of thicknesses to suit the design requirements of each specific application. When strength is a concern, this process allows TMP to produce a product at greater thicknesses than woven wire or even other Electroforming techniques. Alternatively, E-Fab Mesh can be produced at very fine thicknesses down to 10 microns.

Non-Woven: Unlike woven wire mesh, E-Fab Mesh is a single, flat piece of metal. By eliminating the criss-cross wires, E-Fab Mesh will not trap particles...making cleaning more efficient. Additionally, light transmission can be maintained within a ±2% transmission tolerance.

Corrosion Resistance: Produced from 100% pure nickel with no plating to wear off, Electroformed Mesh has natural corrosion resistance that will not diminish with time.

Custom High-Temperature Option: Through a custom-developed process, E-Fab Mesh can withstand temperatures exceeding 500°C for decontamination and tensioning requirements.

Custom Manufacturing: E-Fab Mesh by TMP is highly customizable by variations in wire width, hole size, thickness, hole shape and overall shape. A nearly limitless number of product configurations are available. Furthermore, TMP's cutting edge photolithography manufacturing techniques allow customizing to occur without long delays or high prices.

Most Common Mesh Sizes

Wires per Inch	Hole Size (inches)	Wire Width (inches)	Maximum Transmission (Open Area)
1000	0.00021	0.00029	50.0%
750	0.00099	0.00034	55.0%
400	0.00194	0.00056	60.0%
300	0.00206	0.00073	61.0%
250	0.00325	0.00075	66.0%
200	0.00406	0.00094	66.0%
150	0.00570	0.00097	73.0%
110	0.00787	0.00122	75.0%
90.1	0.01055	0.00055	88.0%
70	0.01355	0.00073	90.0%

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