

MicroGrid® Expanded Metal Foils For Primary Filter Media Support

MicroGrid® Filtration Solutions

Separation and purification are key criteria for industries that process water, food & beverages, chemicals, and pharmaceuticals. Engineered Materials (Dexmet Corporation) custom manufactures all MicroGrid® expanded materials in a multitude of open-area designs with controlled pore sizes to provide a more consistent flow rate for your filter and separation applications.

Expanded Metal Foils are from .001" thin to 60" width, from 1 to 9,000 openings per square inch.

Engineered Materials offers the greatest range of products, capabilities, and resources available... all with ISO 9001:2015 certified quality.

Applications & Advantages

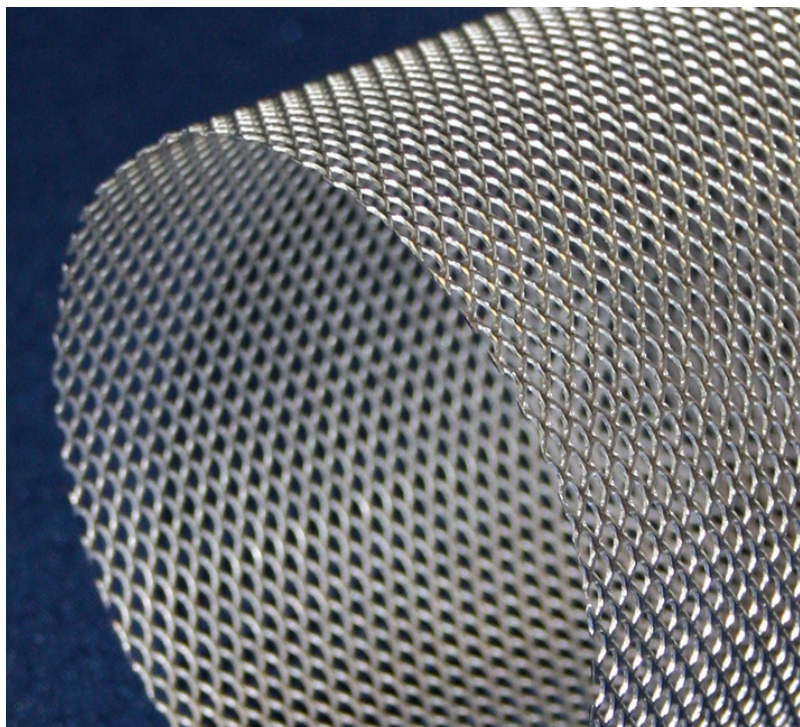
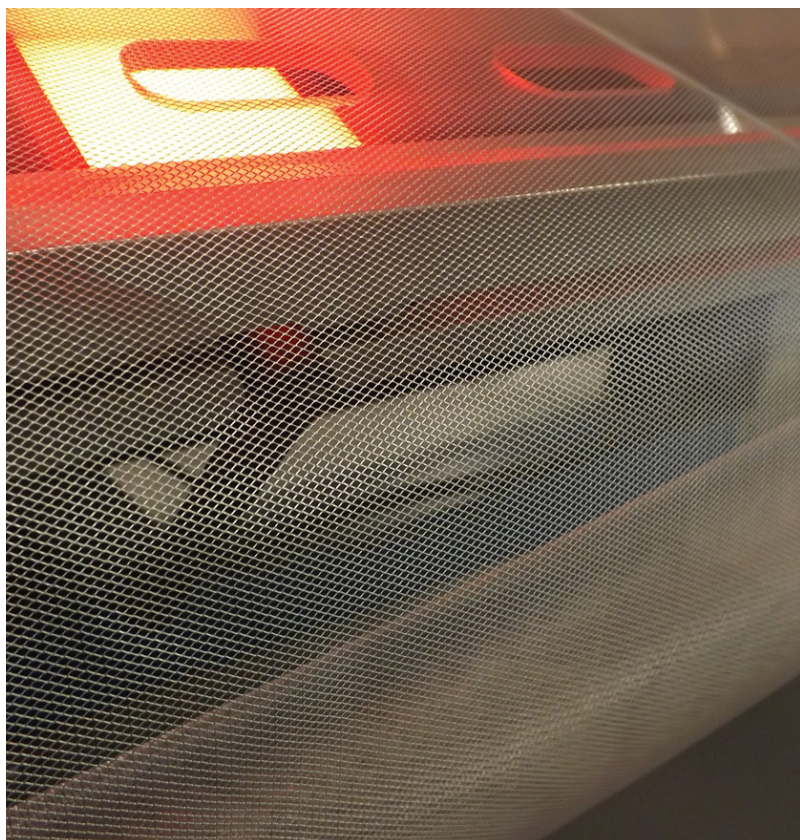
- Low Fluid Flow Resistance Feed & Drainage Layers
- Filtration Enhancing Membrane Support & Separation Backing
- Assures Media Integrity & Pleat Spacing Even Under Dynamic Flow

Performance Features

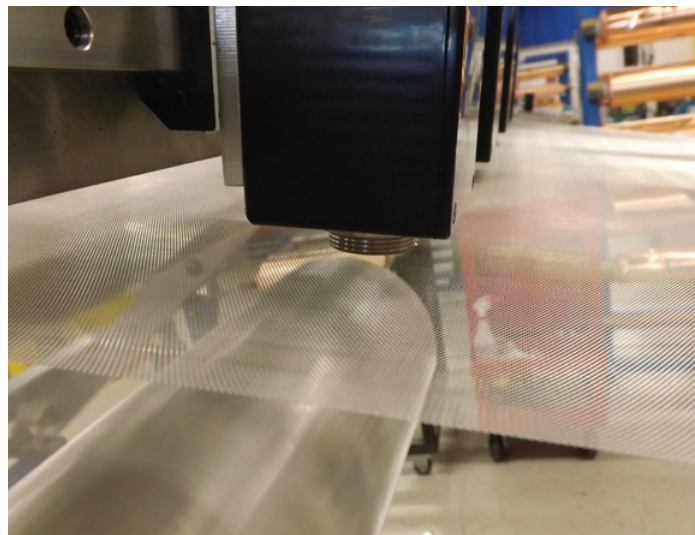
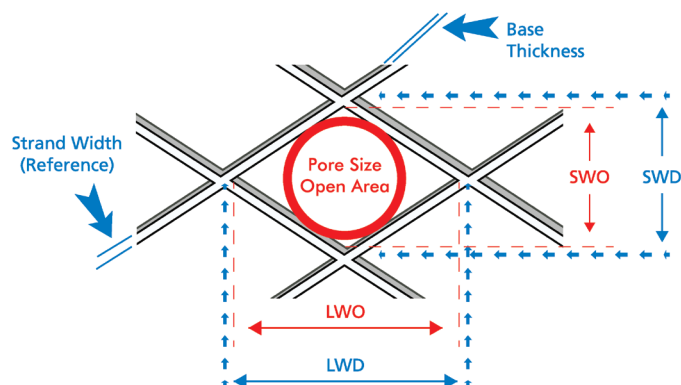
- Ultra-Thin For Better Pleat Density & Increased Surface Area
- Material Thickness down to 50 Microns (.002") up to 1 mm (0.040")
- Pore Sizes Down to 100 Micron (.004")
- 750+ Openings/cm² (4,800+ Openings/inch²)

Engineered Materials Advantage

- ISO 9001:2015 Certified
- 70,000 Square Feet of Manufacturing Space
- Applications Specialist Ready to Assist
- Research & Development Facilities
- Division of PPG Industries



MicroGrid® Expanded Metal Foils For Filtration, Separation & Chemical Processing Applications



Standard Dexmet MicroGrid® Configurations

Tool Code	LWD (in)	SWD (in)		Hole Size (in)		Opening/Inch ²		Open Area		Width (in)	Raw Thickness (in)	
		Min	Max	Min	Max	Min	Max	Min	Max		Min	Max
031	0.031	0.0182	0.0244	0.0015	0.01	2650	3550	32%	82%	12	0.001	0.005
040	0.040	0.0222	0.0323	0.002	0.017	1750	2250	24%	85%	12	0.0015	0.006
050	0.050	0.0244	0.0357	0.003	0.022	1120	1640	21%	89%	24	0.0015	0.008
060	0.060	0.0303	0.0435	0.003	0.027	780	1150	20%	90%	24	0.0015	0.009
075	0.075	0.0303	0.0370	0.0033	0.03	720	880	15%	90%	38	0.0015	0.009
077	0.077	0.0333	0.0556	0.004	0.033	475	775	15%	90%	36	0.002	0.012
080	0.080	0.0370	0.0667	0.007	0.04	375	675	16%	90%	48	0.002	0.014
090	0.090	0.0455	0.0556	0.007	0.045	400	500	16%	90%	24	0.002	0.014
100	0.100	0.0400	0.0769	0.007	0.046	250	475	16%	90%	38	0.002	0.017
105	0.105	0.0500	0.0769	0.007	0.048	250	350	20%	90%	24	0.002	0.018
125	0.125	0.0500	0.1111	0.008	0.052	150	325	20%	90%	48	0.002	0.025
140	0.140	0.0588	0.1250	0.01	0.065	110	250	30%	90%	24	0.003	0.03
158	0.158	0.0769	0.1250	0.011	0.075	100	180	30%	90%	27	0.003	0.03
180	0.180	0.0714	0.1111	0.011	0.08	100	150	32%	90%	24	0.004	0.03
190	0.190	0.0667	0.1000	0.02	0.088	80	130	35%	90%	24	0.005	0.03
215	0.215	0.0833	0.1429	0.02	0.095	65	110	35%	90%	24	0.005	0.03
236	0.236	0.0909	0.1429	0.025	0.1	60	90	35%	90%	24	0.005	0.03
250	0.250	0.1000	0.1667	0.027	0.11	50	80	35%	90%	24	0.005	0.03
284	0.284	0.0909	0.1429	0.03	0.13	45	80	35%	90%	24	0.005	0.03
400	0.400	0.1250	0.3333	0.035	0.18	15	40	35%	90%	24	0.005	0.03
500	0.500	0.2000	0.400	0.05	0.225	10	20	35%	90%	36	0.005	0.03

All recommendations, statements, and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and assumes all risks and liability resulting from his use of the product. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss, or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.

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