

## Expanded Aluminium Foil Mesh







Material: stainless steel, carbon steel, brass, aluminum, titanium, nickel, Al-Mg alloy


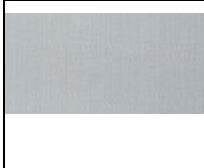

Special designs or sizes is also available at customers request.

Specific Applications	Technical References	Examples of protective and Applications
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### Standard Product Range

The following is a sampling of dies that are available from Dexmet. We produce over 100,000 configurations and can design a die to suit your particular application.

Pattern Shown	Pattern Designation	LWD inches (mm)	SWD inches (mm)	Orig. Mat'l Thickness inches (mm)	Strand Width inches (mm)	Openings per sq. in.
	500	.405 - .506" (10.25 - 12.75)	.143 - .279" (3.6 - 7.1)	.003 - .04" (.075 - 1)	.007- .07" (.175 - 1.775)	15-22
	275	.215 - .289" (5.4 - 7.4)	.107 - .200" (2.7 - 5.1)	.003 - .035" (.075 - .9)	.005- .055" (.125 - 1.4)	33-77
	190	.180 - .190" (4.5 - 4.8)	.056 - .143" (1.4 - 3.6)	.002 - .030" (.05 - .75)	.005- .045" (.125 - 1.1)	79-166
	125	.112 - .160" (3.0 - 4.06)	.055 - .115" (1.4 - 2.92)	.002 - .026" (.05 - .7)	.004- .04" (.1 - 1.10)	114-253
	100	.093 - .112" (2.4 - 2.8)	.038 - .091" (.97 - 2.3)	.002 - .025" (.05 - .61)	.005- .026" (.125 - .66)	253-353
	077	.075 - .080" (1.91 - 2.03)	.032 - .053" (0.82 - 1.35)	.001 - .018" (.025 - .46)	.004 - .020" (.1 - .51)	493-780

	050	.050 - .06" (1.27 - 1.5)	.021 -.041" (0.53 - 1.04)	.001 - .015" (.025 - .381)	.004 - .015" (.1 - .381)	809-1814
	031	.03 - .04" (0.78 - 1.02)	.021 -.029" (0.53 - 0.74)	.001 - .005" (.025 - .127)	.004 - .012" (.1 - .31)	1789-2942
	020	.020" (0.51)	.011 -.014" (0.28 - 0.36)	.001 - .002" (.025 - .050)	.004 - .006" (.1 - .152)	8500-11000

**LWD** (Long Way of the Diamond), measured from the center of the joint to the center of the adjacent joint. This dimension is built into the tool, and is always parallel to the width of the coil and corresponds with the diamond dimension.

**SWD** (Short Way of the Diamond) is the length of the short axis way of the diamond, measured from the center of the joint to the center of the joint. For each fixed LWD dimension, there is a range of SWD dimensions available as shown above.

**Ductile Metals:** Aluminum, Brass, Cadmium, Columbium, Copper, Gold, Inconel, Lead, Magnesium, Nickel, Nickel Alloys, Phosphor Bronze, Platinum, Silver, Stainless Steel, Low Carbon Steel, Tantalum, Titanium, Zinc, Zirconium, etc.

**Plastics:** Nylon, Polypropylene, Polyethylene, Mylar, Teflon, Tefzel, etc.

### Explanation of Product Code:

Example: 3 Ni 5-077

First number represents nominal original thickness

3 = .003" (.076 mm)

Letters are chemical symbol for material

Ni = Nickel

Number immediately following letters represents strand width

5 = .005" (.127 mm)

Last number indicates the long way of the diamond

077 = .077" (1.96 mm)

Variations to many of these standard MicroGrid® products are described in the previous section. In addition, each mesh size offers a wide range of tools for your desired results. We

can help design precision expanded foil to meet your specialized mechanical, electrical, or heat transfer requirements. Call for material/mesh samples and engineering assistance.