

# A82 Micro-Mesh® Cushioned Abrasive Sheets



## Applications

- NEW - Now available in four formats for different applications.
- Polish and clean metals, plastics, wood fiberglass, bakelite, marble, and painted surfaces.
- New formats polish stainless steel, copper, aluminum, quartz and ceramic insulators, glass and ceramic parts.
- MS & SEM source cleaning.
- Polishing MS probes, source slits and other metal parts.
- Cleaning mass spec quadrupoles.

## Use Wet or Dry

Micro-Mesh may be used wet or dry and after you're done, it can be washed out and used again.

Applications in our shop at SIS include cleaning and polishing sources, probes, filaments, and quadrupole rods. The finer meshes are ideal for cleaning and trimming source slits. By beginning with the coarser grits of regular Micro-Mesh (1500 - 2400) and successfully polishing with finer grits (3200 - 12000) we have produced mirror finishes on MS direct probes. The finer grits, (Kit #MMK-3), are ideal for cleaning mass spec sources. The new MXD diamond coated Micro-Mesh is used to finish glass, quartz, and ceramic - ideal when you need to shave down a ceramic insulator.

## Micro-Mesh® available in 4 formats:

- **Regular Micro-Mesh** - Silicon Carbide Crystal Abrasive Used for finishing plastics, acrylics, bakelite, fiberglass, paints, polymers, wood, cultured marble, some metals, and more.
- **MX Micro-Mesh** - Silicon Carbide Abrasive with Thicker Backing. Use these products for finishing stainless steel, brass, copper, other metals, and hard wood. The backing of the MX is less flexible than in the regular so you can achieve a high gloss on metals.
- **AO Micro-Mesh** - Aluminum Oxide Abrasive Use these products for finishing aluminum and for finishing solid surface countertops such as Corian and Avonite, etc.
- **MXD Micro-Mesh** - Diamond Crystal Abrasive use these products for finishing hard metal alloys, glass, quartz, ceramics, natural granite, and natural marble.

## Micro-Mesh® Cushioned Abrasives

Micro-Mesh is a cloth-backed abrasive that is engineered to produce fine finishes on metals, coatings, plastics, glass, quartz and woods. Unlike conventional abrasives, Micro-Mesh is made with precision graded silicon carbide, aluminum oxide or diamond crystals, a resilient inner cushioning layer and a flexible cloth backing. Micro-Mesh cushioned abrasives are made in such a manner that the crystals are held in a resilient latex matrix on a flexible cloth backing, which will allow the crystals to recede when subjected to contact pressure. These features combine to provide exceptionally uniform finishes.

What is unique about cushioned abrasives is that they do not give any random deep scratches. Instead, they produce an extremely uniform scratch pattern over the entire work surface. The crystals continue to cut effectively until they eventually become dull and lose their cutting edge.

All formats of Micro-Mesh are available in sheets, rolls, discs, belts, Soft Touch Pads, specialty kits files, and custom sizes on request. Please visit our web site for additional details:

<http://www.sisweb.com/micromesh>.

**Abrasive Crystal Dimensions**

Micron Size	Milli Meters	Inches	Americ Std. GRIT *	ANSI or CAMI MESH *
80	0.080	0.0031	220	180
74	0.074	0.0029	240	200
60	0.060	0.0023	285	240
45	0.045	0.0018	325	280
43	0.043	0.0017		320
42	0.042	0.0016		
35	0.035	0.0014	500	360
30	0.030	0.0012	600	400
25	0.025	0.00098	800	500
17	0.017	0.00067	1000	
15	0.015	0.00059	1200	600
12	0.012	0.00047	1400	800
10	0.010	0.00039		
9.5	0.0095	0.00037		
9	0.0090	0.00035	1800	1000
8.5	0.0085	0.00033		
8	0.0080	0.00031	2800	1200
5	0.0050	0.00020	4500	
4	0.0040	0.00016	5000	1500
3	0.0030	0.00012	8000	
2	0.0020	0.00010	12000	2000

**Micro-Mesh Types**

Regular	MX	AO	MXD
		AO-300	MXD-A20
	MX-60		MXD-180
	MX-080		
	MX-100	AO-600	
	MX-120		MXD-260
	MX-150	AO-800	
MM-1500	MX-180	AO-1500	
			MXD-400
			MXD-500
MM-1800	MX-240	AO-1800	
MM-2400	MX-320	AO-2400	
	MX-360		MXD-600
			MXD-800
	MX-400		MXD-1200
MM-3200		AO-3200	
MM-3600		AO-3600	
MM-4000	MX-600	AO-4000	MXD-1500
MM-6000	MX-800	AO-6000	
MM-8000	MX-1200	AO-8000	
MM-12000		AO-12000	MXD-1800

\* Grit and Mesh sizes are approximate since they vary by manufacturer.