



PRODUCT DATASHEET

Product Name	Micro-Mesh	 A roll of Micro-Mesh abrasive paper, showing the white backing and the grey mesh surface. The roll is partially unrolled, showing the texture of the mesh.
Manufacturer	Micro Surface Finishing Corp	
Part Number	Various	
Available Pack Sizes	Various	
Qualifications	Various	

DESCRIPTION

Micro-Mesh™ is what is known as a 'cushioned abrasive' – silicone carbide or aluminium carbide crystals fixed to a cloth backing using specially formulated latex. When pressure is applied, the crystals recede and rotate slightly to present their sharp cutting edges evenly across the surface. The abrasive crystals all cut together on the same plane with a positive rake.

Conventional sandpaper is designed to be aggressive so that it will dig deeply. In its manufacture the crystals are electrically charged so that they will stand up. They are locked into a hard resin and when you apply the paper to a surface it will literally tear in and remove the substrate of the material you are sanding. The crystals cut in a negative raking motion, leaving inconsistent scratch patterns. Micro-Mesh™ does the opposite. The backing is long lasting cloth to which an ultra-flexible cushioning layer is applied. On top of this layer is a very resilient and flexible glue, instead of a hard resin. This allows each crystal to be held in place whilst also allowing it to move and rotate. When you start to apply pressure to sand with Micro-Mesh™, the crystals sink into the cushioning layer whilst beginning to cut a bit. If you push harder they will sink further into the cushioning layer, serving as a safety valve. To increase the depth of the cut, simply use a coarser grade of Micro-Mesh™.

Micro-Mesh™ is suitable for a huge range of applications (as detailed below) across many industries, including: Aerospace, Automotive, Marine, Composites, Transparencies, Medical, Electronic, Sports/Recreation, and many more.

TYPES OF MICRO-MESH™

- Micro-Mesh™
Suitable for plastics, woods, composites, urethanes and soft materials
Grits: 1500, 1800, 2400, 3200, 3600, 4000, 6000, 8000, 12000.
- Micro-Mesh™ AO (Aluminium Oxide)
Suitable for aluminium polishing and solid-surface countertops
Grits: 300, 600, 1500, 2400, 4000, 12000.
- Micro-Mesh™ MX
Suitable for metal finishing and hard materials
Grits: 60, 80, 100, 120, 180, 240, 320, 360, 400, 600, 800, 1200
- Micro-Mesh™ MXD (Diamond)

Frasers Aerospace

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Suitable for hard metals, alloys, ceramics and granite/marble
Grits: 120, 180, 280, 400, 500, 600, 800, 1200, 1500, 1800.

Micro Mesh is available in various forms, adding to its versatility – including:

- Rolls (6" x 50', 6" x 25')
- Sheets (3" x 6", 6" x 12", 12" x 12")
- Soft-touch pads (2" x 2", 3" x 4")
- Swabs (2.25", 3", 5")
- Discs (1", 2", 3", 4", 5", 6", 8", 11¼", 12")
- Handi-Files (5/8" x 5" x 3/4")
- Belts (Contact us for further details)

In addition to being able to buy Micro-Mesh™ in pre-defined sizes and shapes, a bespoke/custom cutting service is also available – contact us for further details or to obtain a quotation).

Micro-Surface have also put their 30+ years knowledge of abrasives to excellent use and compiled a number of kits, each suitable for a specific application and containing everything that you will need to complete the task in-hand. These kits and applications include:

- Heavy Damage Removal Kit
For use on aircraft plastics and transparencies.
This kit will remove crazing, scratches and gouges.
Restores optical clarity to approx. 90ft² of acrylic.
- MA-1 Acrylic Restoral Kit
For use on aircraft plastics and transparencies.
This kit will restore up to 100ft² of acrylic and is the largest hand-use kit.
- HP-100 Acrylic Restoral Kit
For use on aircraft plastics and transparencies.
This kit will restore up to 60ft² of acrylic..



OTHER KITS AVAILABLE INCLUDE:

- MX-90 Metal Polishing Kit
- NC-78-1 Acrylic Restoral Kit
- Plexiglas Lens Restoral Kit
- Polycarbonate Rectification Kit
- Light Damage Removal Kit (for cordless drills)
- Light Damage Removal Kit (for rotary sanders)
- Acrylic Aquarium Restoral Kit
- Kitchen & Bath Maintenance Kit
- KR-70 Acrylic Restoral Kit
- JB-6 Acrylic Cabin Window Restoral Kit
- JG-5 Vinyl / Isinglass Restoral Kit
- Burn Removal Kit
- Clear Coat Paint Repair Kit
- Acrylic Headlight Restoral Kit
- Hobby and Craft Kit(s)
- Micro-Mesh™ Belt Kit (Available in MX, AO and regular)

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