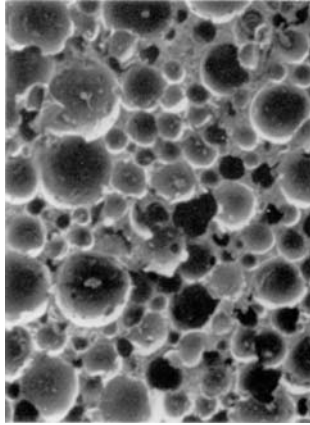


RODEL - MH Products

Description of Polishing Pad



(100x Cross Section)

Rodel MH Products are uniquely designed for polishing and fining a wide variety of surfaces where flatness and ultra precision surface finish is critical. These materials include glass surfaces, ceramic components, precision lenses, semiconductor wafers and aluminium disks.

An advanced polyurethane formula is the base of all MH products. This formula produces a micro cellular pore matrix throughout the material and yields an extremely tough, durable surface to withstand the demands of fining and polishing with abrasives. The MH structure provides a maximum use of the abrasive by embedding it into the top surface of the pad to allow greater cutting action and minimizing free particles that can contribute to scratching.

MH products are available in different material densities with or without ceria abrasive fillers. Lower density materials have a more open structure. All MH products are compatible with standard polishing slurries.

MH Pads for Polishing

Unfilled or cerium oxide charged MH materials yield excellent polishing performance. The combined features of hardness, porosity and durability allow rapid removal rates while maintaining flatness. All MH products are compatible with standard polishing slurries.

Both uncharged and cerium oxide filled pads are available in different densities. Lower density materials have a more open structure which can contribute to more rapid removal rates. Higher density products, on the other hand, may be more durable.

MH Pads with Fixed Abrasive

The MH structure provides an ideal matrix for fixed abrasive fining. Embedding the abrasive into the pad holds the abrasive at the grinding surface. This maximizes use of the abrasive, positions it for a cutting action at the surface, and minimizes free particles that can contribute to scratching.

Aluminum Oxide and zirconium oxide filled pads are available for this application. Special blends and abrasive sizes can also be made upon request. Consult your Rodel Representative for specific information.

Representative property values

Product	Thickness (mm)	Density (g/cm ³)	Fill	Hardness Shore D	Grooves	Samples
MH C14B Ceria	various	0.37 - 0.46	3 mic CeO ₂	38	On request	
MH N15A unfilled	various	0.47 - 0.56	Unfilled	47	On request	

The MH Products are available with or without self-adhesive back-side as sheets or pads. The surface of the pad can be provided with various grooving.

RODEL - MH Products

Pad sizes

In various OD and thickness, inquire for standard OD available ex stock.

	Thickness (mm)	Sheet size standard
MH C14B	1 mm, 2 mm	800 x 1600 mm
MH N15A	1 mm, 2 mm	800 x 1600 mm

MH Pad Surface Grooving

Channels can be grooved into the surface of MH C14B & MH N15A to improve slurry flow and give exceptional polishing results.

Groove Description:

B3



Pitch Code	Configuration	Depth		
		3 mm Pad	2 mm Pad	1 mm Pad
2 = 22,5 mm 4 = 40 mm	B3 = oval at 3 mm width	2.3 mm Groove	1.3 mm Groove	.06 mm Groove
		77 %	65 %	60 %

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