



- Long lifetime and high quality surface finish
- High material removal shortens preparation time



# High performance polishing cloths for fine grinding, diamond and oxide polishing of all materials

Struers polishing cloths are made of carefully selected fabrics. Extensive tests have led to the development of the market's best polishing cloths in terms of preparation quality and durability. Most polishing cloths are available in two versions: MD-Cloths and DP/OP-Cloths.

The **MD-Cloths** are part of the MD-System – a comprehensive line of metal-backed coarse and fine grinding discs and polishing cloths that adhere magnetically to the MD-Disc. This makes positioning, removal and storage very easy (see separate brochure for more details on the MD-System).

The **DP/OP-Cloths** are equipped with an adhesive backing to be adhered on a polishing disc. The adhesive has been specially developed to provide a strong bond to the support. Thus, each cloth adheres very well to the preparation disc, but it can be removed, without leaving any residues.

The working surfaces of both versions of polishing cloths are identical and cover all application areas.



With the adapter MD-Rondo, all cloths can be used with the MD-System, even in 350 mm dia.

## Unique foil properties

The foil on the polishing cloths is a laminate of two different foils, each with unique features:

The top foil establishes the connection to the textile and provides a first barrier against abrasives and lubricants. The second foil has a very high rigidity, which makes the cloth dimensionally very stable and facilitates the fixation of the polishing cloth to the preparation disc. The foil is coated with a metallic layer to prevent aggressive fluids from seeping through and destroying the layer of adhesive underneath.

## Surface-specific diamond suspensions make results even better

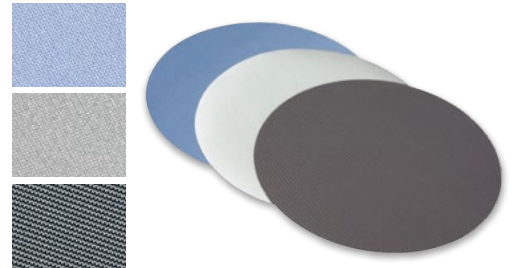
Extensive research has shown that the composition of the polishing textile has a remarkably high influence on the efficiency of the diamond suspensions used.

Struers' line of surface specific all-in-one suspensions, DiaPro, are optimised for the individual surface compositions – and the results are outstanding. Tests have shown that the total preparation time can be reduced by 30% on average.

*Read more about the DiaPro suspensions' unique mixture of diamonds and cooling lubricant in separate brochure.*



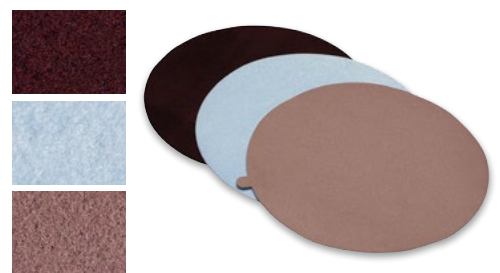
MD/DP-Pan and MD/DP-Plan



MD/DP-Dac, MD/DP-Dur and MD/DP-Sat



MD/DP-Mol, OP-Nat and OP-Felt



MD/DP-Nap and MD/DP-Plus, MD/DP-Floc



MD-Chem NonStick and MD/OP-Chem

Cloth	Fabric	Features	Abrasive / Grain size	Application area
<b>MD/DP-Plan</b>	Plain, woven polyester.	Very high degree of planeness. High removal rate.	Diamond / 15 - 3 µm	Fine grinding of soft metals. Pre-polishing of hard materials.
<b>MD/DP-Pan</b>	Impregnated non-woven technical textile.	Very high degree of planeness.	Diamond / 15 - 3 µm	Fine grinding of soft metals. Pre-polishing of hard and brittle materials.
<b>MD/DP-Sat</b>	Woven acetate	Very high degree of planeness. High removal rate.	Diamond / 9 - 3 µm	Fine grinding and polishing of ferrous metals, non-ferrous metals, coatings and plastics.
<b>MD/DP-Dur</b>	Satin woven natural silk.	Very high degree of planeness.	Diamond / 9 - 1 µm	Fine grinding and polishing of ferrous metals, non-ferrous metals, coatings and plastics.
<b>MD/DP-Dac</b>	Satin woven acetate.	Very high removal rate.	Diamond / 9 - 3 µm	Polishing of all materials.
<b>MD/DP-Mol</b> <b>MD-Mol APS</b>	Taffeta woven 100% wool.	Ensures a careful preparation of the specimen.	Diamond / ≤ 3 µm	Polishing of ferrous and non-ferrous metals and polymers. Well suited for polishing with 3 µm diamonds when a less aggressive polish is required.  MD-Mol APS is developed for use on Automatic Preparation Systems.
<b>MD/DP-Plus</b>	Synthetic nap.	Good ability to hold large amounts of suspension and lubricant.	Diamond / ≤ 3 µm	One step polishing for sintered carbides and steels.
<b>MD/DP-Floc</b>	Synthetic nap.	Good ability to hold large amounts of suspension and lubricant.	Diamond, oxide polishing / ≤ 3 µm	Polishing of all materials.
<b>MD/DP-Nap</b>	Synthetic short nap.	Ideal for polishing with very small abrasives.	Diamond, oxide polishing / ≤ 1 µm	Final polishing of all materials.
<b>OP-Nat</b>	Woven wool felt.	High degree of planeness.	Alumina / ≤ 9 µm	Well suited for polishing with alumina products.
<b>OP-Felt</b>	Thick felt.	Gives a gentle preparation of the specimens.	Alumina / ≤ 9 µm	Well suited for polishing with alumina products.
<b>MD/OP-Chem</b> <b>MD-Chem NonStick</b>	Porous neoprene.	High degree of chemical resistance.	Oxide polishing / < 1 µm	Final polishing of all materials. It is ideal for oxide polishing with chemically aggressive oxide media like alkaline colloidal silica and acidic alumina suspensions.  MD-Chem NonStick has a groove pattern to avoid suction of large specimens.



**SPECIFICATIONS**

	Cat. no.	Cat. no.	Cat. no.	Cat. no.
Type	200 mm dia.	250 mm dia.	300 mm dia.	350 mm dia.
<b>MD-Cloths</b>				
MD-Plan	40500086	40500087	40500088	40500147
MD-Pan	40500157	40500158	40500159	40500160
MD-Sat	40500406	40500407	40500408	
MD-Dur	40500074	40500075	40500076	40500149
MD-Dac	40500071	40500095	40500073	40500150
MD-Mol	40500077	40500078	40500079	40500152
MD-Mol APS			40500155	40500156
MD-Plus	40500089	40500090	40500091	40500151
MD-Floc	40500403	40500404	40500405	
MD-Nap	40500080	40500081	40500082	40500153
MD-Chem	40500092	40500093	40500094	40500154
MD-Chem NonStick			40500410	
<b>DP/OP-Cloths</b>				
DP-Plan	40500200	40500201	40500202	
DP-Pan	40500161	40500162	40500163	
DP-Sat	40500216	40500217	40500218	
DP-Dur	40500208	40500209	40500210	
DP-Dac	40500212	40500213	40500214	
DP-Mol	40500220	40500221	40500222	
DP-Plus	40500224	40500225	40500226	
DP-Floc	40500228	40500229	40500230	
DP-Nap	40500232	40500233	40500234	
OP-Felt	40500300	40500301	40500302	
OP-Nat	40500304	40500305	40500306	
OP-Chem	40500308	40500309	40500310	
<b>Accessories</b>				
MD-Rondo	40503000	40503001	40503002	40503082
MD-Disc	02426920	02426919	02426918	02426933

Struers' products are subject to constant product development. Therefore, we reserve the right to introduce changes in our products without notice.



DiaPro suspensions are optimised for specific surface properties.



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