

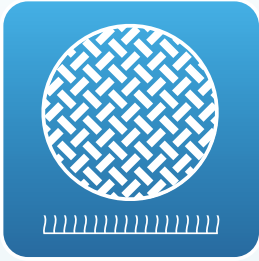
# Polishing Cloths

– THE SMARTER ALTERNATIVE  
FOR DIAMOND AND OXIDE POLISHING

## SELECTION GUIDE

Polishing Cloths for all  
applications in metallographic  
fine grinding and polishing

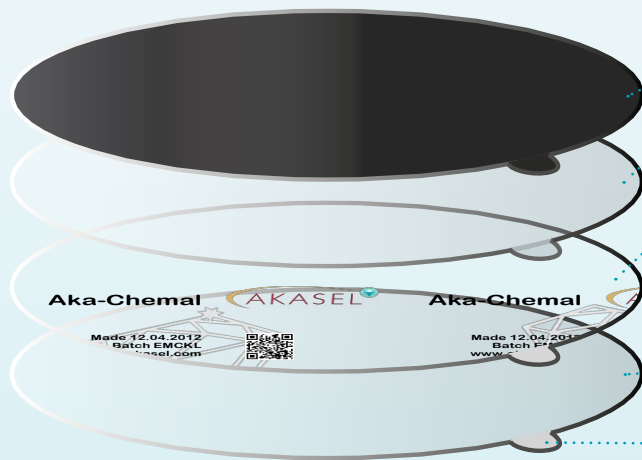




Akasel polishing cloths are developed and manufactured to provide the best possible performance for metallographic sample preparation. Two versions are available:

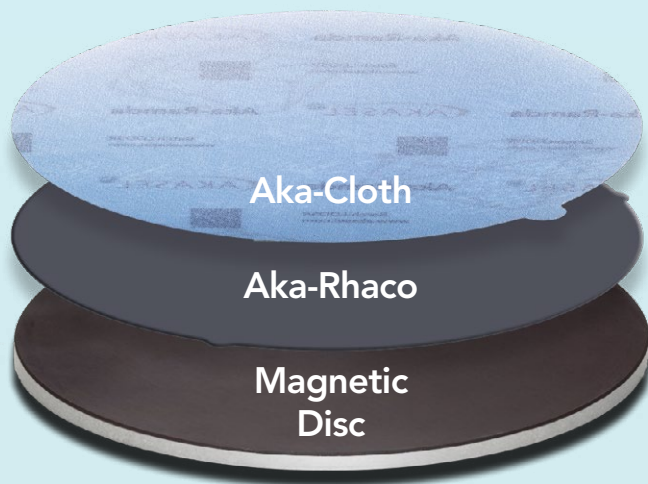
- Self-adhesive cloths to be glued onto an aluminium support disc.
- The Mag-type polishing cloths to be placed directly on a magnetic support disc.

The Akasel polishing cloths have a unique composition:



- Selected textile for optimum performance
- Water, ethanol and oil resistant polymer barrier
- Transparent, PSA backed foil with low tack for good adhesion to and easy removal from the preparation disc, with printed batch information for easy identification and QR code for additional info
- Transparent liner with easy adhesion to Aka-Rhaco
- Tab for easy removal

The Mag-type polishing cloths for use on magnetic support discs are based on the cloths above, laminated on steel discs. The steel discs are equipped with 3 tabs for easy removal.



The self-adhesive cloths can also be used with the unique Aka-Rhaco.

Aka-Rhaco is a thin steel disc with a soft, sticky polymer coating. Without removing the liner, the cloth can be attached to an Aka-Rhaco disc, and when worn, the cloth can easily be removed again. It is thus identical to a magnetic cloth, but at a lower price, as the Aka-Rhaco can be used over and over again. Furthermore, the environmental impact is considerable as only a fraction of steel discs have to be disposed of. With Aka-Rhaco and a self-adhesive cloth, you have all the advantages of a magnetic cloth and at the same time a cost-effective and environmentally friendly solution.

**THE SMARTER  
ALTERNATIVE**

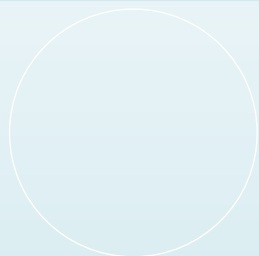
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## APPLICATION OVERVIEW

	Cloth material	Fine grinding	Polishing	Final polishing	Application
<b>Plaran</b>	Woven Nylon	15 - 6 $\mu\text{m}$	3 $\mu\text{m}$	÷	Fine grinding of soft metals, polishing of hard materials
<b>Paran-S</b>	Non-woven Polyester	15 - 3 $\mu\text{m}$	6 - 1 $\mu\text{m}$	÷	Fine grinding of soft metals, polishing of hard materials
<b>Silk</b>	100% Woven Silk	9 $\mu\text{m}$	6 - 1 $\mu\text{m}$	1 - 0.25 $\mu\text{m}$ Oxide polishing	Fine grinding of ferrous metals, polishing and final polishing of harder materials and coatings
<b>Ramda</b>	Woven Acetate	÷	3 - 1 $\mu\text{m}$	1 $\mu\text{m}$	Polishing of all materials. Harder than Daran
<b>Daran</b>	Woven Acetate	÷	6 - 1 $\mu\text{m}$	1 - 0.25 $\mu\text{m}$ Oxide polishing	Polishing of all materials. Softer than Ramda
<b>Moran-U</b>	100% Woven Wool	÷	6 - 3 $\mu\text{m}$	1 $\mu\text{m}$	Polishing and final polishing of non-ferrous and ferrous metals
<b>Moran</b>	100% Woven Wool	÷	6 - 3 $\mu\text{m}$	÷	Polishing of non-ferrous and ferrous metals
<b>Plural</b>	Flocked Viscose	÷	3 - 1 $\mu\text{m}$	÷	Fast, one-step polishing of steels, sintered carbides and other hard materials. Polishing of unmounted samples
<b>Napal</b>	Flocked Viscose	÷	÷	1- 0.025 $\mu\text{m}$ Oxide polishing	Final polishing of all materials
<b>Chemal</b>	Synthetic Foam	÷	÷	Oxide polishing	Chemical/mechanical final polishing of all materials

### Useful tips:

- To eliminate the run-in time of a new polishing cloth use a Diamond Stick to prime the polishing cloth.
- For the shortest polishing times and the best results use the high concentration two-in-one Diamond Suspension DiaMaxx.
- When preparing water-sensitive materials use Aka-Poly Water-free together with Aka-Lube Clear WF.



**Plaran**  
Woven Nylon  
15 - 3  $\mu\text{m}$



**Paran-S**  
Non-woven  
Polyester  
15 - 1  $\mu\text{m}$



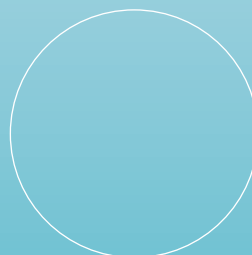
**Silk**  
Woven Silk  
9 - 0.25  $\mu\text{m}$   
Oxide polishing



**Ramda**  
Woven Acetate  
3 - 1  $\mu\text{m}$



**Daran**  
Woven Acetate  
6 - 0.25  $\mu\text{m}$   
Oxide polishing



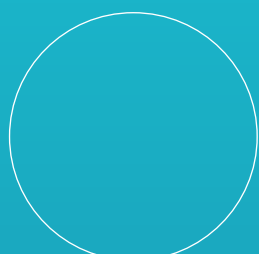
**Moran-U**  
Woven Wool  
6 - 1  $\mu\text{m}$



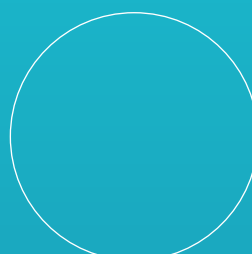
**Moran**  
Woven Wool  
6 - 3  $\mu\text{m}$



**Plural**  
Flocked Viscose  
3 - 1  $\mu\text{m}$



**Napal**  
Flocked Viscose  
1 - 0.025  $\mu\text{m}$   
Oxide polishing



**Chemal**  
Synthetic Foam  
Oxide polishing



32



200



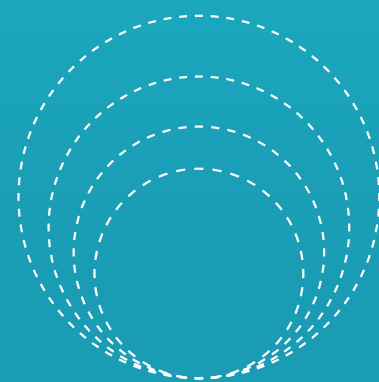
250



300



350



up to 1250 mm

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