

# Akasel Fact Sheet

## Plural Polishing Cloth

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Aka-Plural and Mag-Plural are polishing cloth especially suited for a fast polishing step using 3  $\mu\text{m}$  diamonds.

The Plural cloth is recommended for polishing of different types of steel, from relatively soft to very hard steels. It can also be used for sintered carbides and other very hard materials, and it is often selected for the preparation of un-mounted samples because of its durability and long lifetime.

As 3  $\mu\text{m}$  diamonds are used, there will be a small amount of residual scratching, but that does not influence the structural integrity.

Recommended preparation method:

General preparation of medium hard to hard materials					
1	 Aka-Piatto #220	 Water	 300 rpm	 35 N	 Until plane
2	 Allegan 3	 DiaUltra 6 $\mu\text{m}$	 150 rpm	 35 N	 3:30 min
3	 Plural	 DiaUltra 3 $\mu\text{m}$	 150 rpm	 25 N	 2:30 min

*The parameters in the preparation method are based on 300 mm dia. disc size and 40 mm dia. individual samples*

The Plural cloth can be used as recommended above, or it can replace similar cloths from other suppliers, keeping the preparation parameters as they were. All the preparation parameters can be transferred directly.

**Tip: To eliminate the run-in time, use Aka-Stick to prime the polishing cloth. Use the same grain size as the suspension used.**