

# Akasel Method Sheet

## Preparation Method for Minerals

May 2022



1	 Piatto 220+	 Water	 300 rpm	 35 N	 Until plane
2	 Allegran 6	 DiaUltra 9 µm	 150 rpm	 40 N	 6:00 min
3	 Allegran 3	 DiaUltra 3 µm	 150 rpm	 35 N	 3:00 min
4	 Silk	 DiaUltra 3 µm	 150 rpm	 30 N	 3:00 min
4	 Napal	 DiaUltra 1 µm	 150 rpm	 25 N	 1:00 - 2:00 min
5*	 Chemal	 Colloidal Silica 50 nm Alkaline	 150 rpm	 20 N	 1:00 - 2:00 min

Times are stated for a 300 mm preparation system and 40 mm dia. samples. On a 250 mm system the times should be increased by 30%, on a 200 mm system by 100%.

The rotational speed of the head (sample holder or sample mover plate) used is 150 rpm.

With larger samples the force should be increased, with smaller samples decreased.

Time and Force may vary depending on the equipment.

\* Prior to oxide polishing the polishing cloth should be wetted with water until the holder touches the polishing cloth. For the last 10 seconds of the oxide polishing step, the polishing cloth should be flushed with water to clean both sample(s) and polishing cloth.