

# Aka-Brief #4 Aluminium Alloys

1	 Rhaco Grit P320	 Water	 300 rpm	 20 N	 Until plane	
2	 Largan 9	 DiaUltra 9 µm	 150 rpm	 30 N	 3:30 min	
3	 Moran-U	 DiaUltra 3 µm	 150 rpm	 25 N	 2:30 min	
4	 Chemal*	 Colloidal Silica 50 nm Alkaline	 150 rpm	 20 N	 2:00 min	

Times are stated for a 300 mm preparation system and Forces for an individual 40 mm dia. sample.

On a 250 mm system the times should be increased by 30%, on a 200 mm system by 100%.

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

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

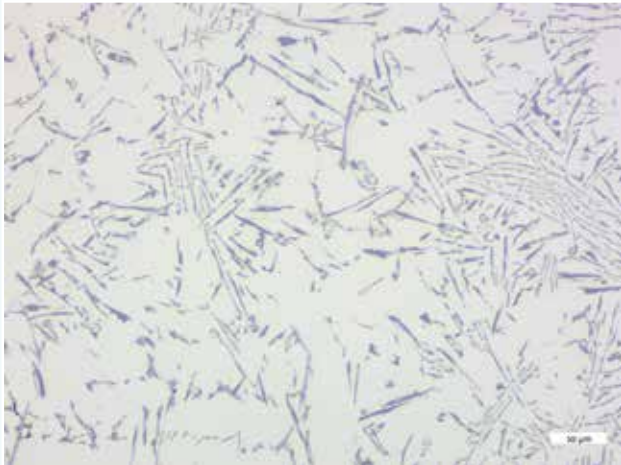
Time and Force may vary depending on the equipment.

\* 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.

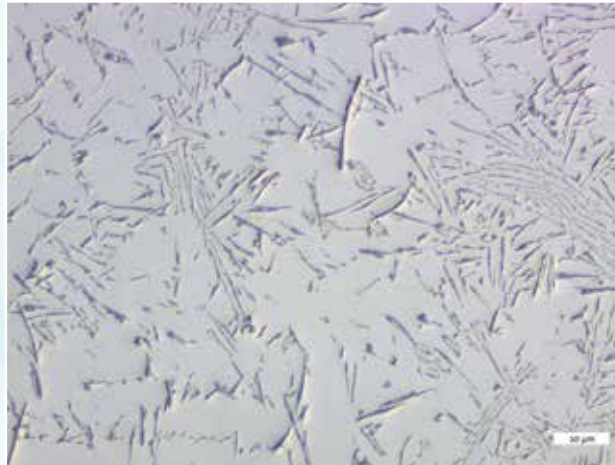


# Aka-Brief #4 Aluminium Alloys

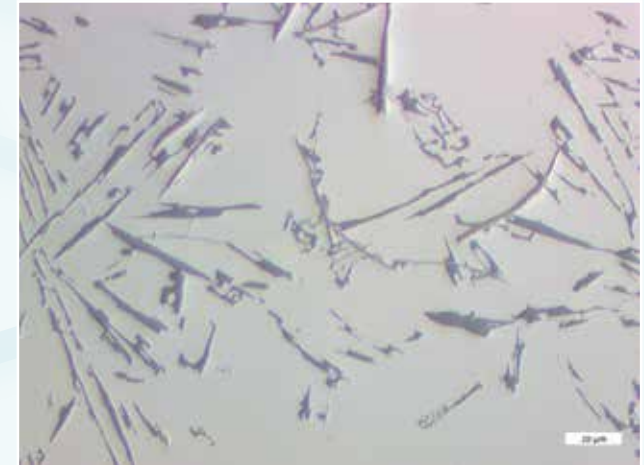
## FINAL RESULT



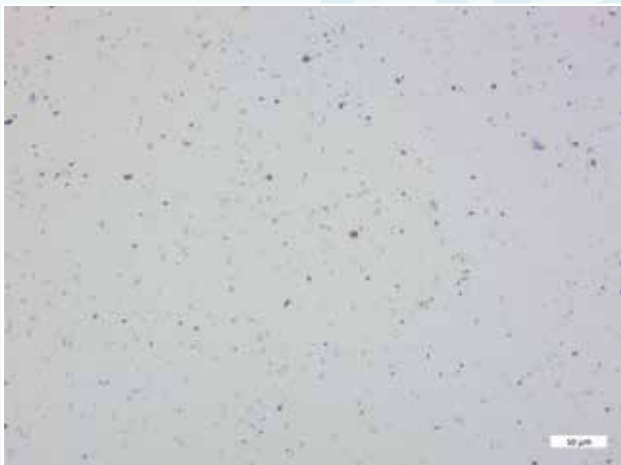
AlSi12, BF, 200x



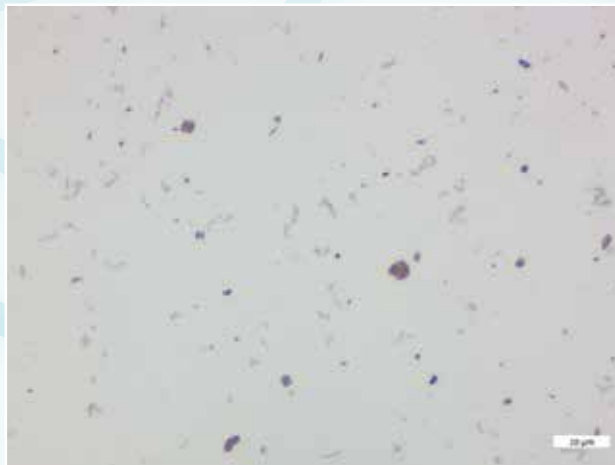
AlSi12, DIC, 200x



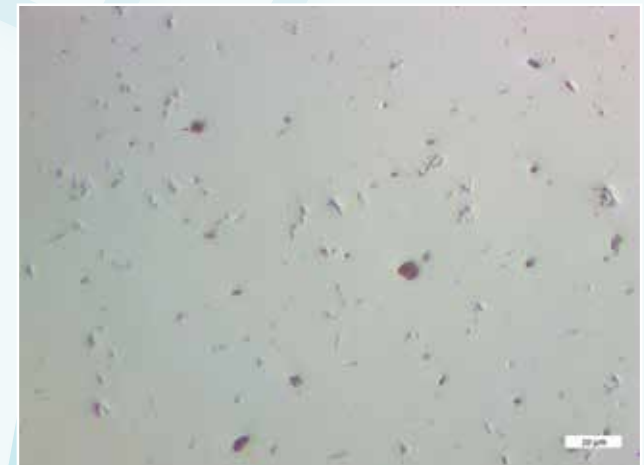
AlSi12, DIC, 500x



AlMg, EN AW-6026, BF, 200x



AlMg, EN AW-6026, BF, 500x



AlMg, EN AW-6026, DIC, 500x