














PREPARATION METHOD

ALUMINUM ALLOYS

 CUTTING		Equipment QATM Qcut / Brillant	Consumables Cut-off wheel: corundum, resin bond Anti-corrosion coolant			
 MOUNTING		Equipment QATM Qpress / Opal	Consumables Bakelite black/red KEM 20, KEM 30 Hot mounting preferred			Method Hot mounting Cold mounting
 GRINDING/ POLISHING		Equipment QATM Qpol / Saphir Sample size \varnothing 40 mm				
STEP	MEDIUM		 rpm		 N	 min
 Planar grinding	SiC-paper/foil P320 (280)	H ₂ O	250-300	▶▶ Synchronous rotation	25	Until plane
 Pre-polishing	BETA	Dia Complete Poly, 9 μ m	120-150	◀▶ Counter rotation	25	3:00-5:00
 Polishing	SIGMA	Dia Complete Poly, 3 μ m	120-150	▶▶ Synchronous rotation	30	3:00-5:00
 Final polishing	LAMBDA/OMEGA	Eposil F, 0.1 μ m	120-150	◀▶ Counter rotation	20	1:00-2:00 (H ₂ O during final 0:30)
 Optional: Etching (chemical)	Kroll's reagent					Approx. 0:30