PREPARATION METHOD



Pressure parameters and specimen size

Steel and welded steel (macro)

Recommended machines and additional consumables (not included)



STEP	MEDIUM	2	Tem rpm	*	Single Pressure	e min
Planar grinding	SiC-paper/foil P180 (180)	H ₂ O	250-300	Synchronous Rotation	30	Until plane (slightly before point of interest)
Grinding	SiC-paper/foil P320 (280)	H ₂ O	250-300	◆► Counter Rotation	25	1:00 (until point of interest)
Grinding	SiC-paper/foil P600 (400)	H ₂ O	250-300	▲► Counter Rotation	25	1:00 (until point of interest)
Optional: Etching (chem.)	Adler´s reagent (macro)					Approx. 0:03-0:20

Notes:

BEGINNERS GUIDE



Constant cutting speed max. 0.25 mm/s

Mounted or unmounted • Hot and cold mounting both possible

• Start grinding with SiC-paper/foil P180

Continue with P320 and P600

Thoroughly wash samples and holder under running water after each grinding step

Notes:

SAMPLE MICROGRAPHS

OK Sample polished

0.8x micrograph of steel and welded steel

- Welded area clearly visible
- Clean homogenous surface

NOK Sample polished

0.8x micrograph of steel and welded steel

- Scratches from grinding
 » Clean sample and sample holder
- » Repeat grinding steps



