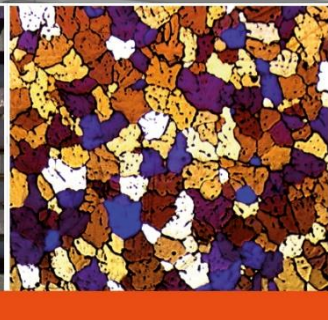
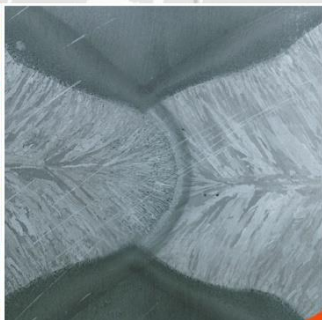
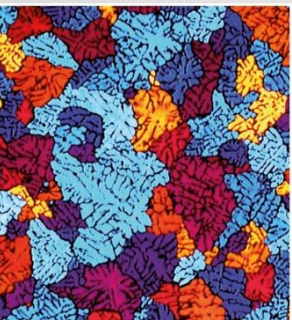


Application lab report

Preparation of unmounted weld seams
with diamond grinding discs



QATM-Preparation method

Objective:

This report includes a preparation method for larger and smaller unmounted samples with weld seams. The preparation is done with diamond grinding discs and the vario sample holder.

Grinding/Polishing

Device	Samples holder	Pressure mode					
QPOL 300 A1 Eco +	Z5440096 + Z5440102	Central					
Step	MEDIUM		 RPM		 N	 min	
 Planar grinding	Galaxy Red	H ₂ O	200	◀ ▶	180	till flat surface	
 Grinding	Galaxy Green	H ₂ O	200	◀ ▶	180	3:00	
 Grinding	Galaxy Blue	H ₂ O	200	◀ ▶	180	3:00	
 Etching (chem.)	Etchant Nitric acid 3%					0:05	

Notes

- Several samples need the same height and a good distribution
- If finer surface is needed, galaxy yellow can be add after galaxy blue with same parameters

QATM-Preparation method



Figure 1: Large sample after GALAXY blue.

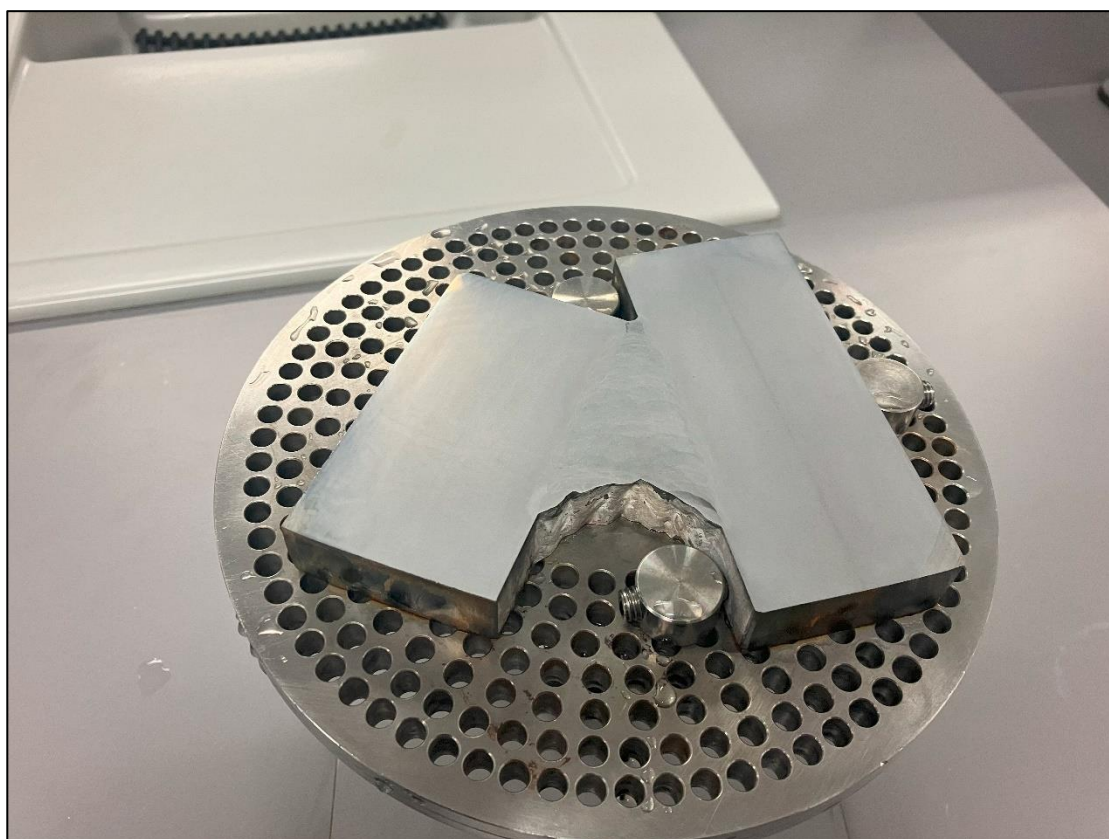


Figure 2: Large sample after etching with nitric acid 3%.

QATM-Preparation method



Figure 3: 3 small samples after GALAXY blue.



Figure 4: 3 small samples after etching with nitric acid 3%.