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Düsseldorf



VDEh

Ridging Phenomena in BCC and FCC Polycrystals

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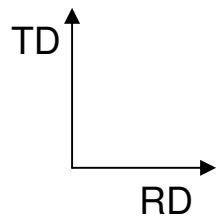
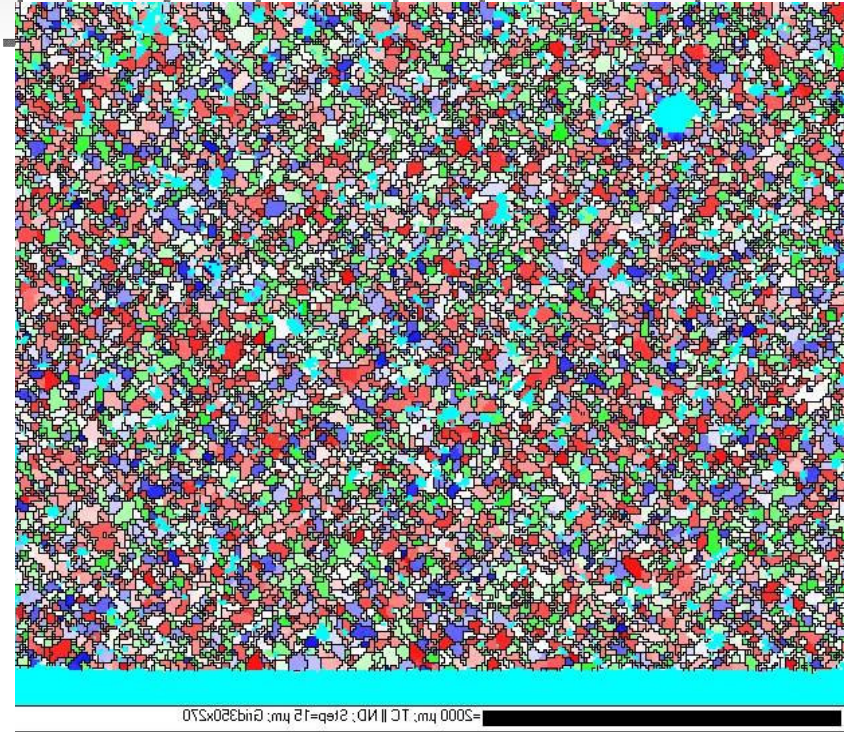
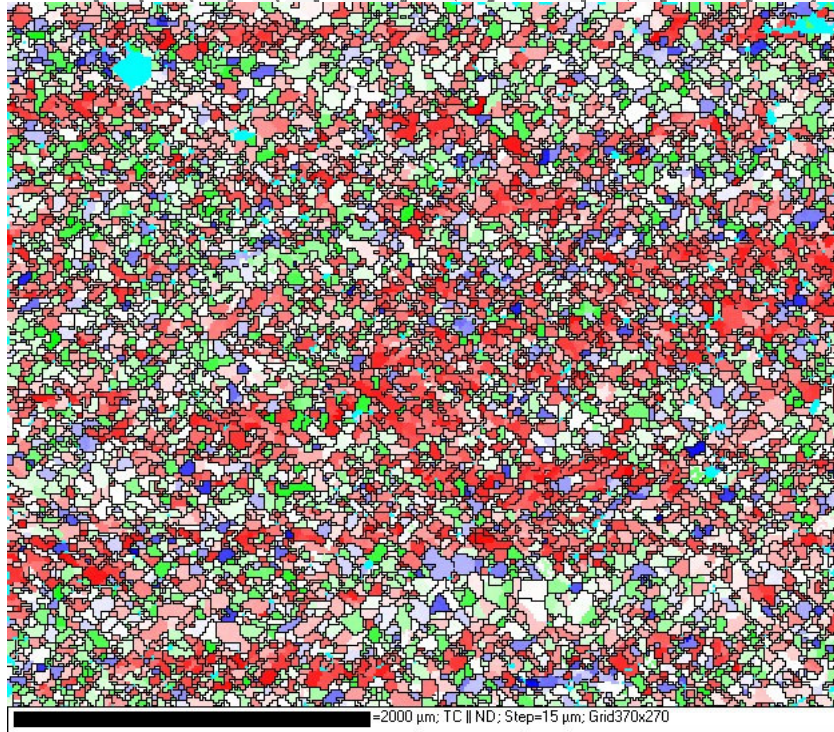
Raabe, Sachtleber
Plasticity 2002

DEPARTMENT FOR MICROSTRUCTURE PHYSICS
AND METAL FORMING



Raabe lecture recording

Orientation Mapping Surface Scan



Sheet A

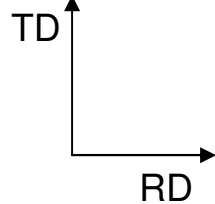
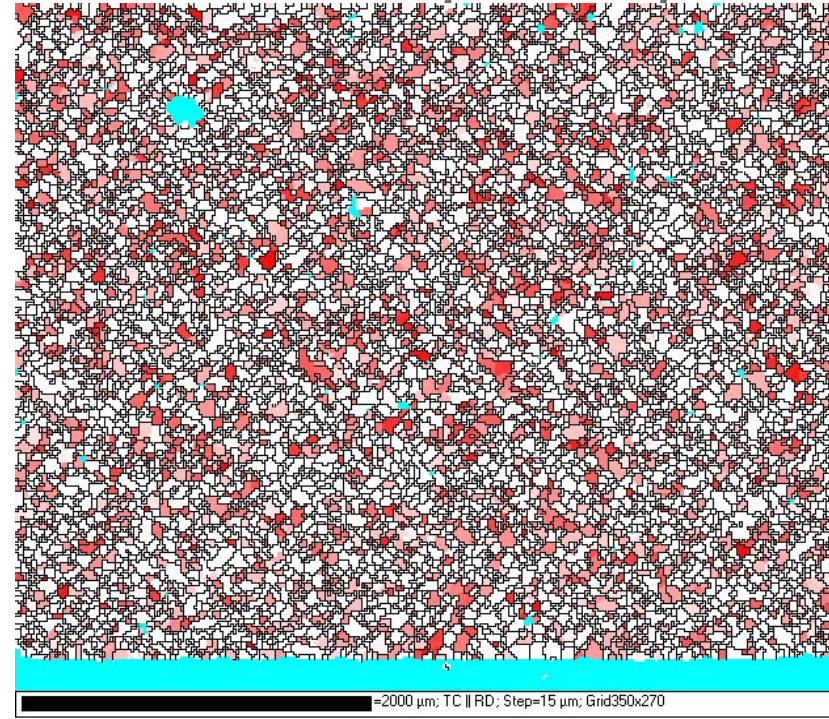
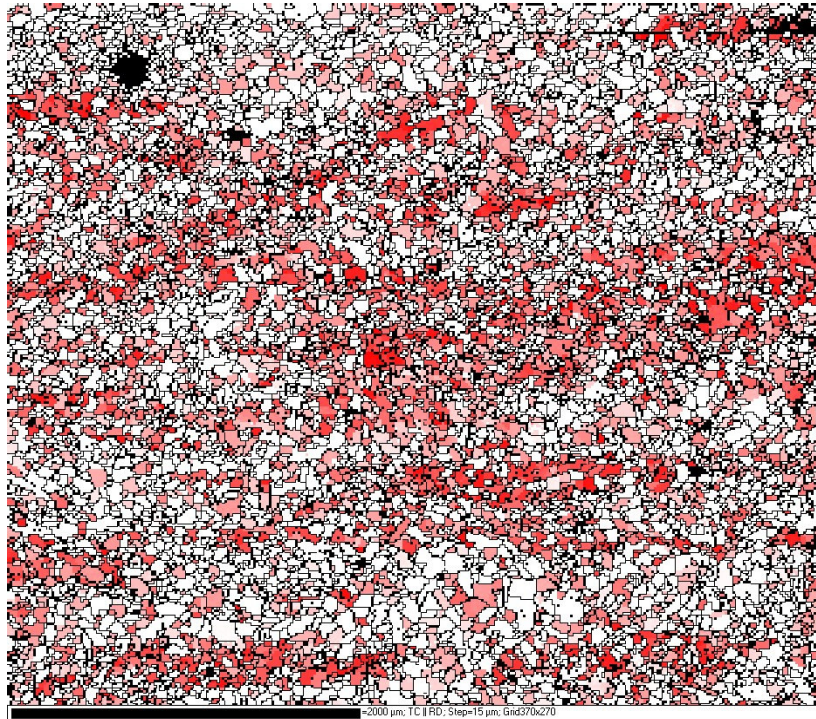
Sheet B



Scan step size 15µm, area 5mm x 4 mm



Orientation Mapping Surface Scan – Cube Orientation Only



Sheet A

100 || ND

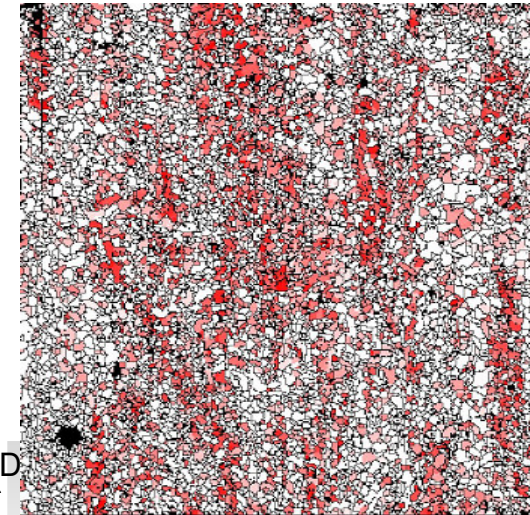
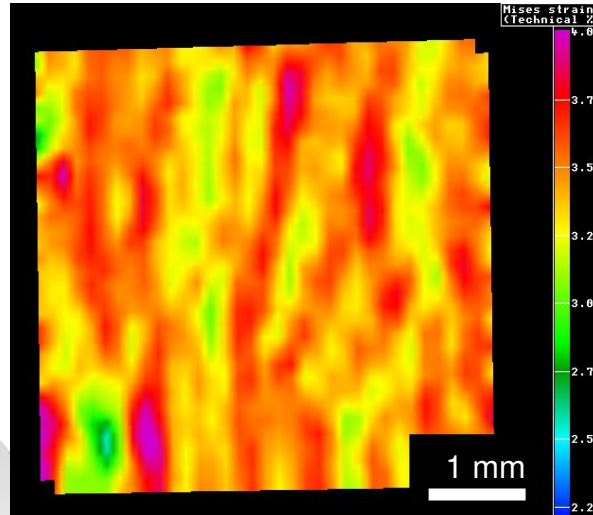
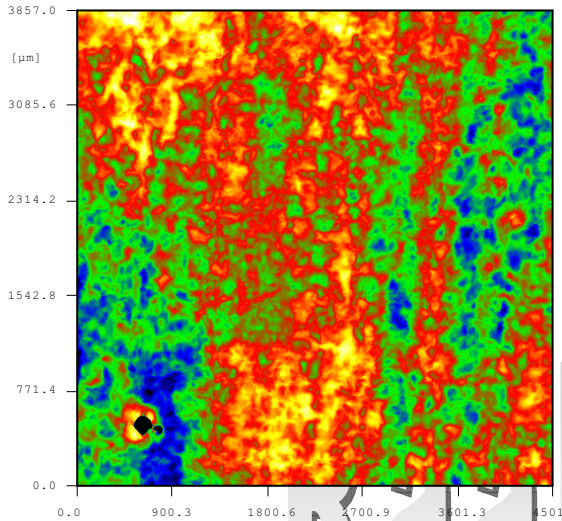


Sheet B

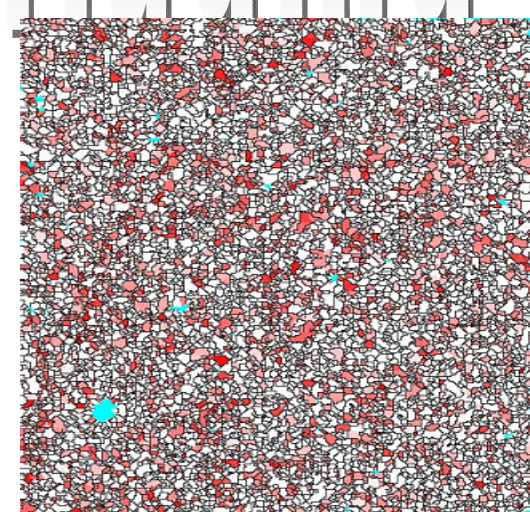
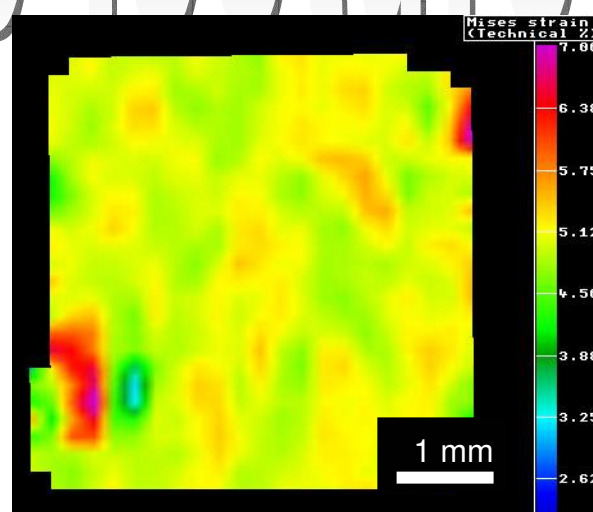
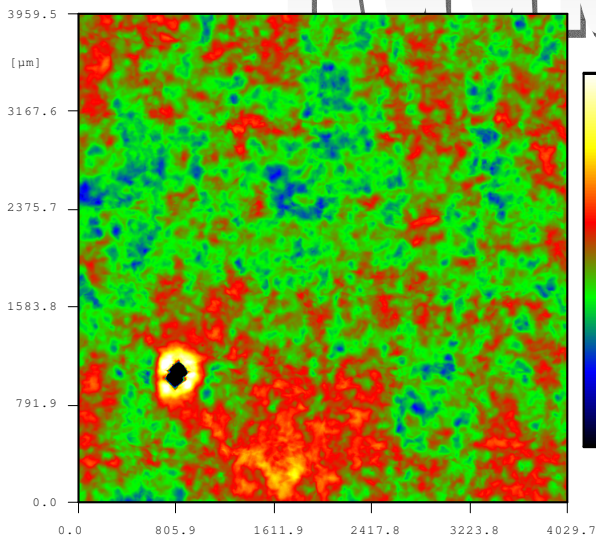
Scan step size 15μm, area 5mm x 4 mm



Sheet A



Sheet B



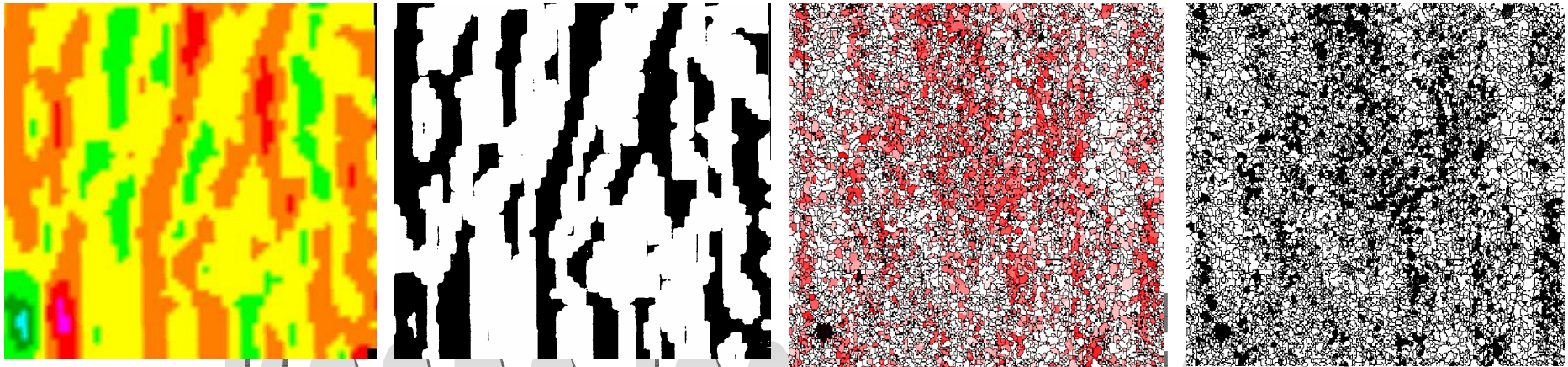
Surface Topography

Surface Strain Mapping

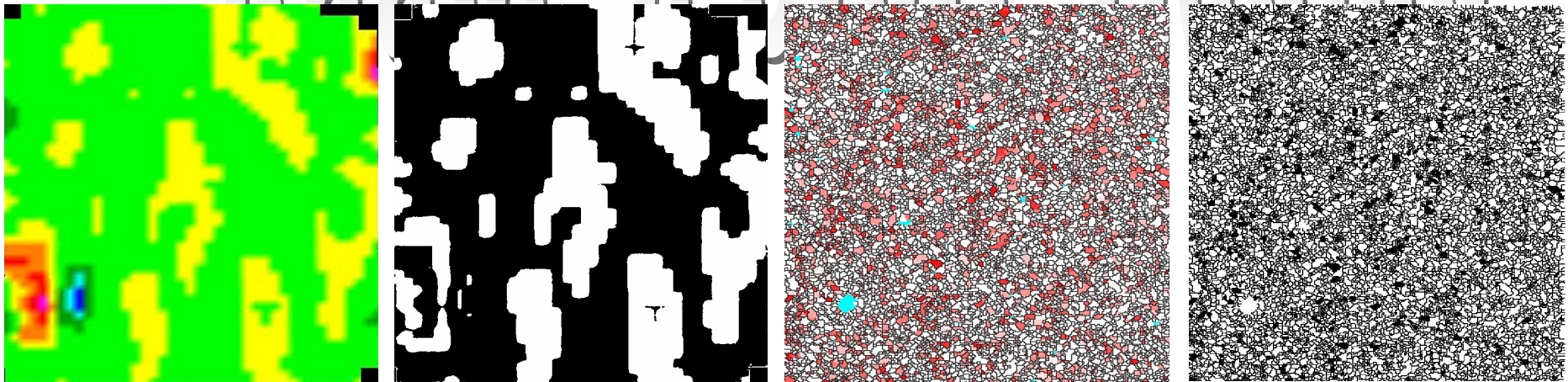
Microtexture



Sheet A

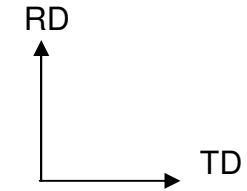


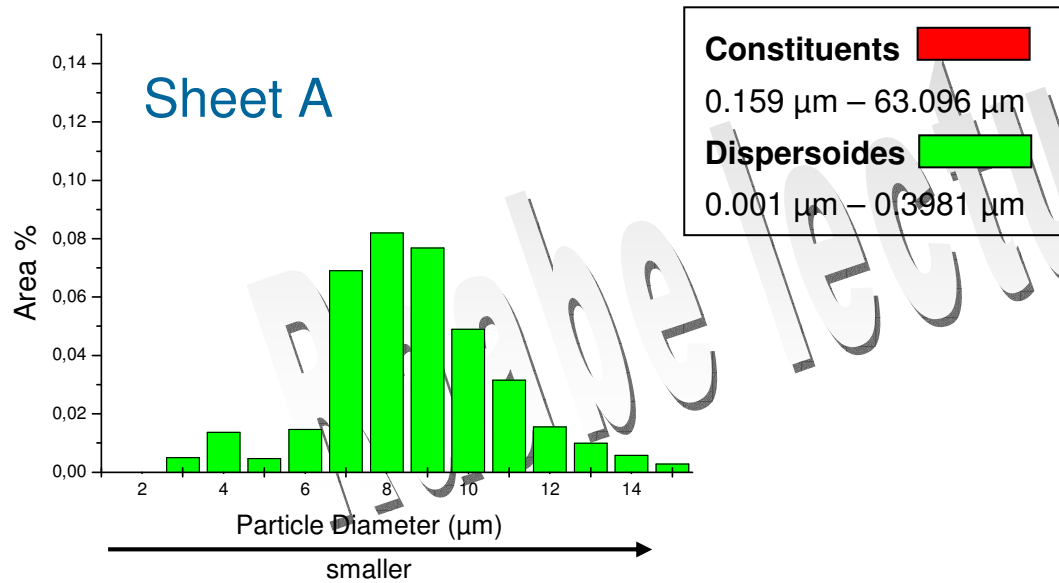
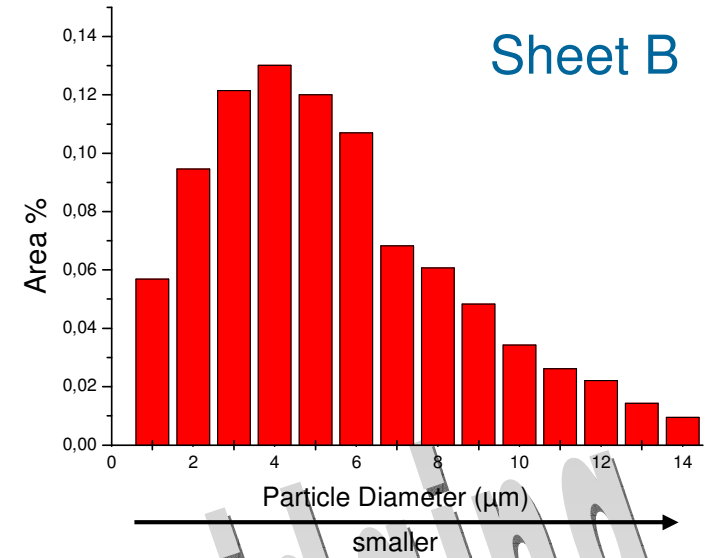
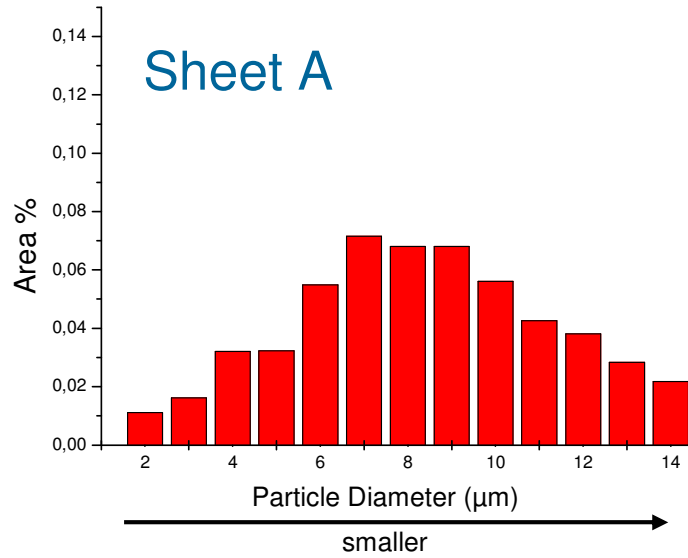
Sheet B



von Mises strain – discrete

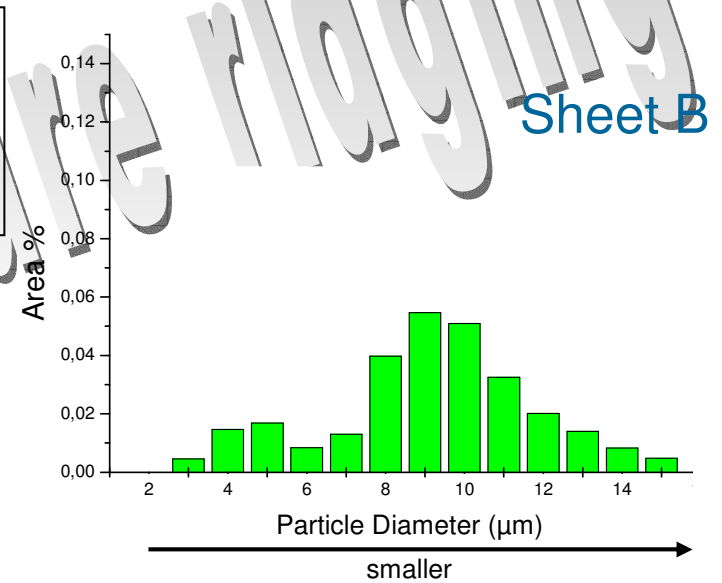
100 II ND



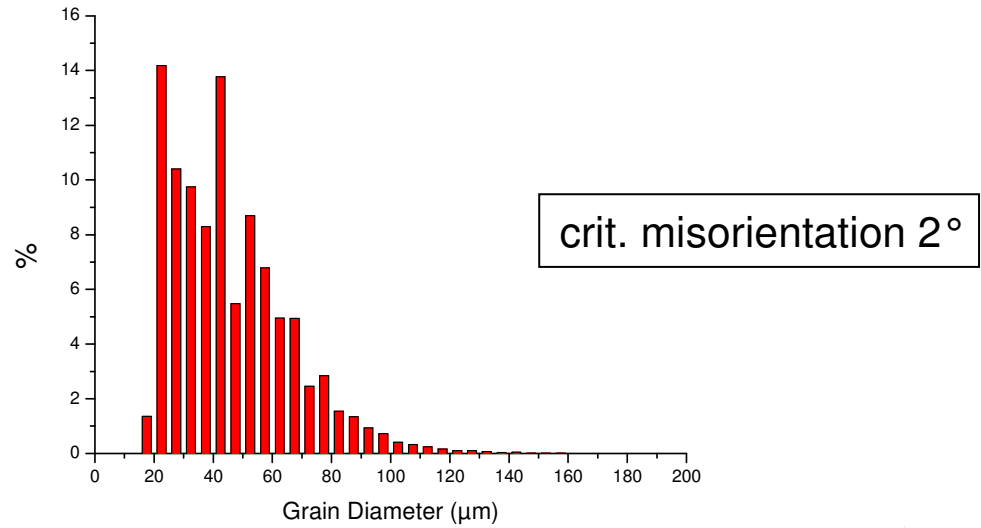


Constituents █
 0.159 µm – 63.096 µm

Dispersoids █
 0.001 µm – 0.3981 µm



Sheet A



Sheet B

