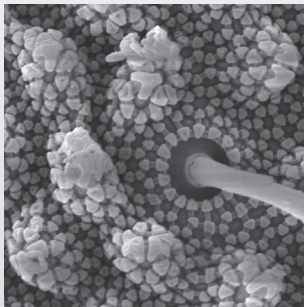
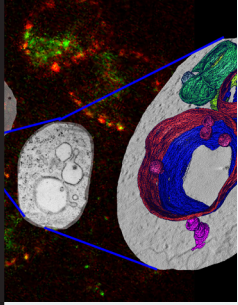


Living up to Life

Leica
MICROSYSTEMS

Material
Research



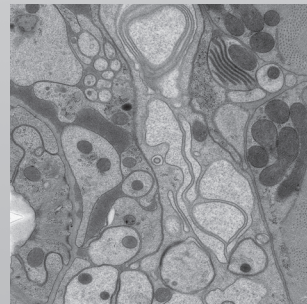
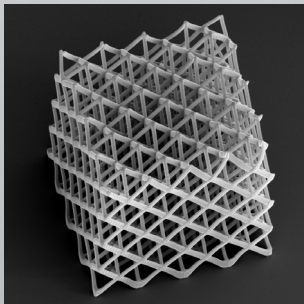
Life Science
Research

Application Note

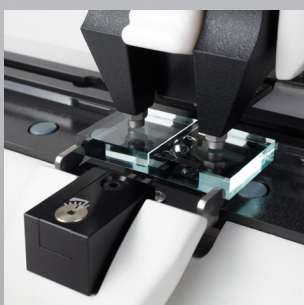
Cross polishing - Aramid

related instrument Leica EM TXP

Medical
Research



Industrial
Manufacturing



Natural
Resources



Cross polishing

Market: Armour (bullet proof vests), Sports equipment, Audio equipment
 Material: Aramid (Kevlar)

Robert Ranner, Leica Mikrosysteme GmbH, Vienna, Austria
 (Robert.Ranner@leica-microsystems.com)

Complete process time: 30 min (without embedding)

Process description: (benchmark values for this particular sample)

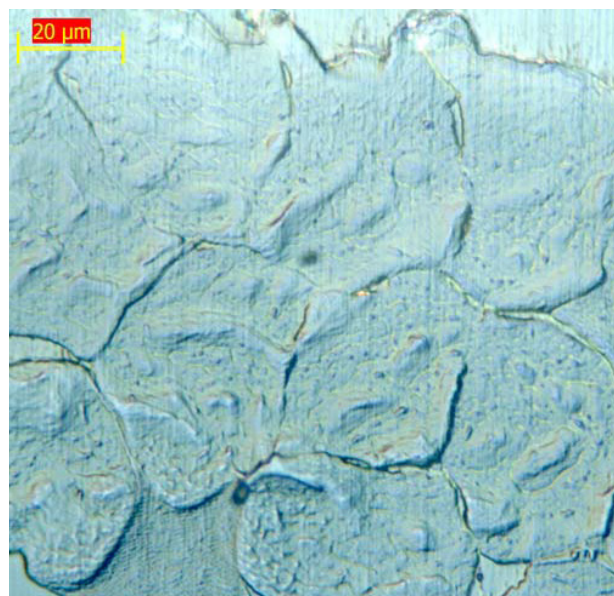
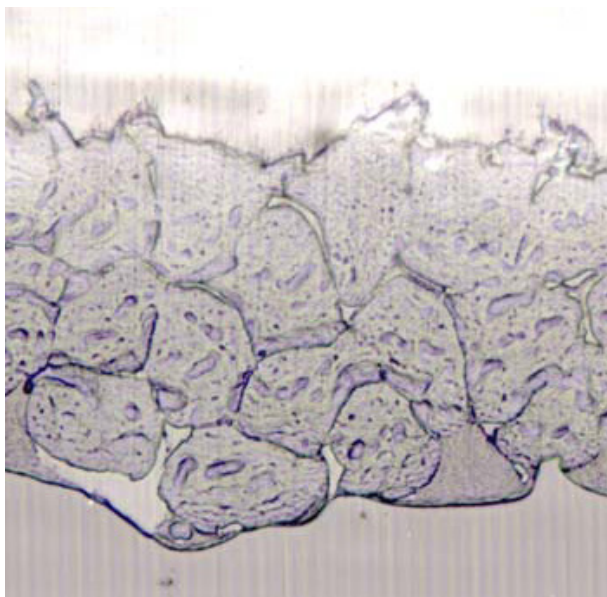
Sample embedded: with Epoxi Cure (Buehler) + vacuum exicator for penetration
Holder: flat specimen holder (0-4mm)

Tool inserts:	r.p.m	F value	Pump	E-W speed
12mm diamond miller, final finish with 0.5 μ m advance	18000	-	8ml	<u>manual</u>
Diamond foils: A type: 3 μ , LA type: 3 μ and 1 μ for final finish	2100	8	8ml	0.35mm/s
Foil carrier: steel				



Sample in holder

RESULTS



RELATED PRODUCTS



Leica EM TXP

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