

ACKTAR

ULTRA-BLACK COATINGS & FOILS

- suppress stray light
- absorb laser power
- create high emissivity



Acktar

Advanced Coatings

WHY

Ultra-black coatings for microscopes

- Improving the **signal strength & detection speed** in microscopy and analytic systems
 - By suppressing and absorbing scattered light
- Increasing the **image and signal quality**
 - By reducing noise and background signal on the sensor
 - **zero autofluorescence** characteristic
- Working with reliable and harmless materials
 - **Bio-compatible** and cytotoxicity tested, **RoHS + REACH** compliant



SPEAKER: Alexander Telle, CEO – ACM Coatings GmbH – subsidiary of Acktar Ltd.
EVENT: EPIC Online Technology Meeting on Microscopy

ACM coatings

ACM is a proud member of





HOW

Ultra-black coatings work

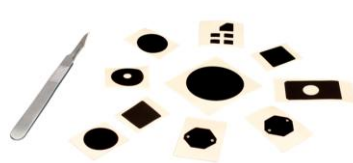
ACKTAR ULTRA-BLACK DIRECT COATINGS

on your optical & mechanical components



ACKTAR ULTRA-BLACK COATED FOILS

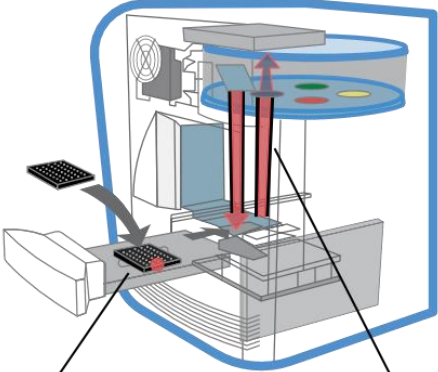
for assembling to your components



- Unique and proprietary vacuum deposition process
- High absorption rate in a broad wavelength range
UV-VIS-IR (→ suitable for new analytic approaches like Raman, SMWIR, hyper spectral, etc.)
- Applicable on numerous materials
- Thin and reliable coating layer (3-5µm only)
- Highly conformable to sharp edges (apertures!) and complex geometries (opto-mechanics!)
- Zero autofluorescence
- Bio-compatible and cytotoxicity tested
RoHS + REACH compliant

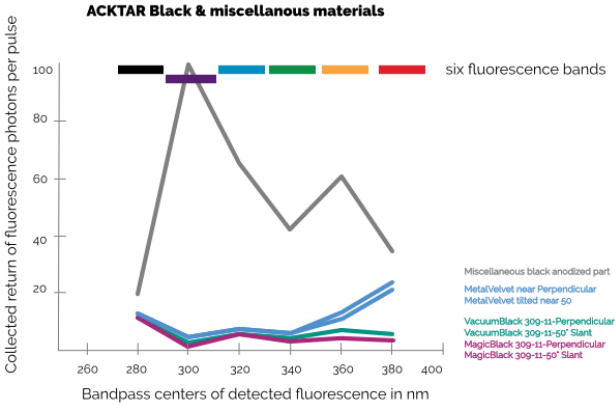
HOW

Application example: RNA quantification



blackened:
• microarray slides
• well plates
• microplates

black coating
in the optical
beam path



- Coating application in the **optical path**:
 - Broad-band straylight suppression and
 - Zero autofluorescence guarantees best possible contrast and an increase in signal intensity and quality
- Coating application on **disposable level**
 - Probe carriers, slides, well-plates
 - Ultra-high binding surface structure
 - Black high contrast background

Acktar

Advanced Coatings

What can we do for you?

- Making high-performance optical systems possible
- Ultra-black direct coating as a service
- Complete manufacturing including machining and coating
- Ultra-black foils and die-cuts

What can you do for us?

- New application ideas
- Tests and qualifications under various demanding conditions
- R&D collaborations and projects
- Improving the coating performance (e.g. mechanical resistance)

Let's make EPIC stuff together!

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