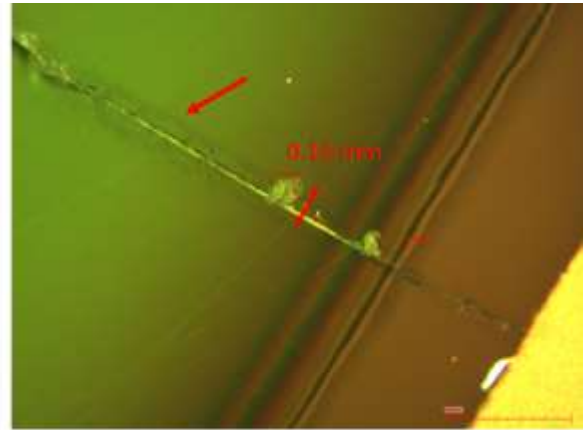


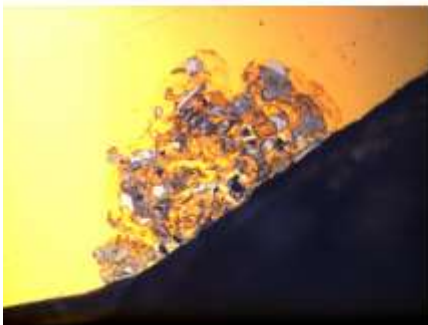
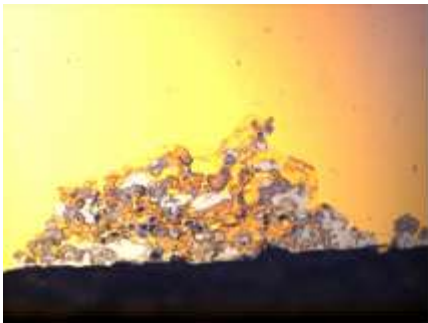
2.5 mm

Scratch on coating, 0.12 mm width on the widest marked area.

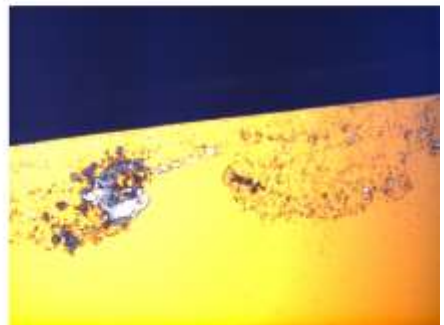


0.5 mm

Scratch on coating with inner cracks, 0.15 mm width on the widest marked areas.

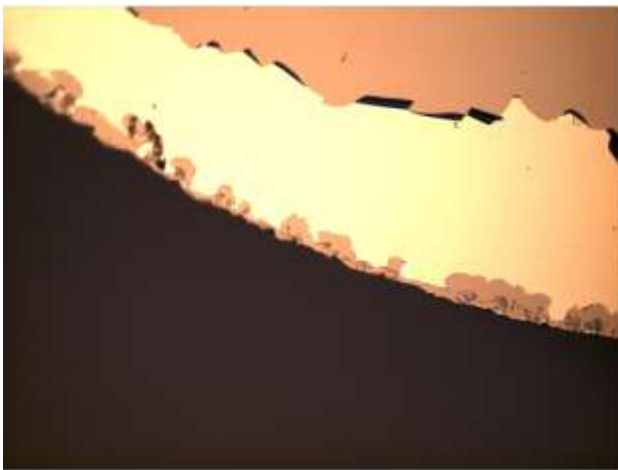


Disintegration of gold reflection coating at the edges of the mirror on left (two mirrors) and the same phenomenon on witness sample (one sample) of the same coating batch





Scratches on the coating of copper coating mirror after moderate abrasion test (the same coating batch for the two mirrors)



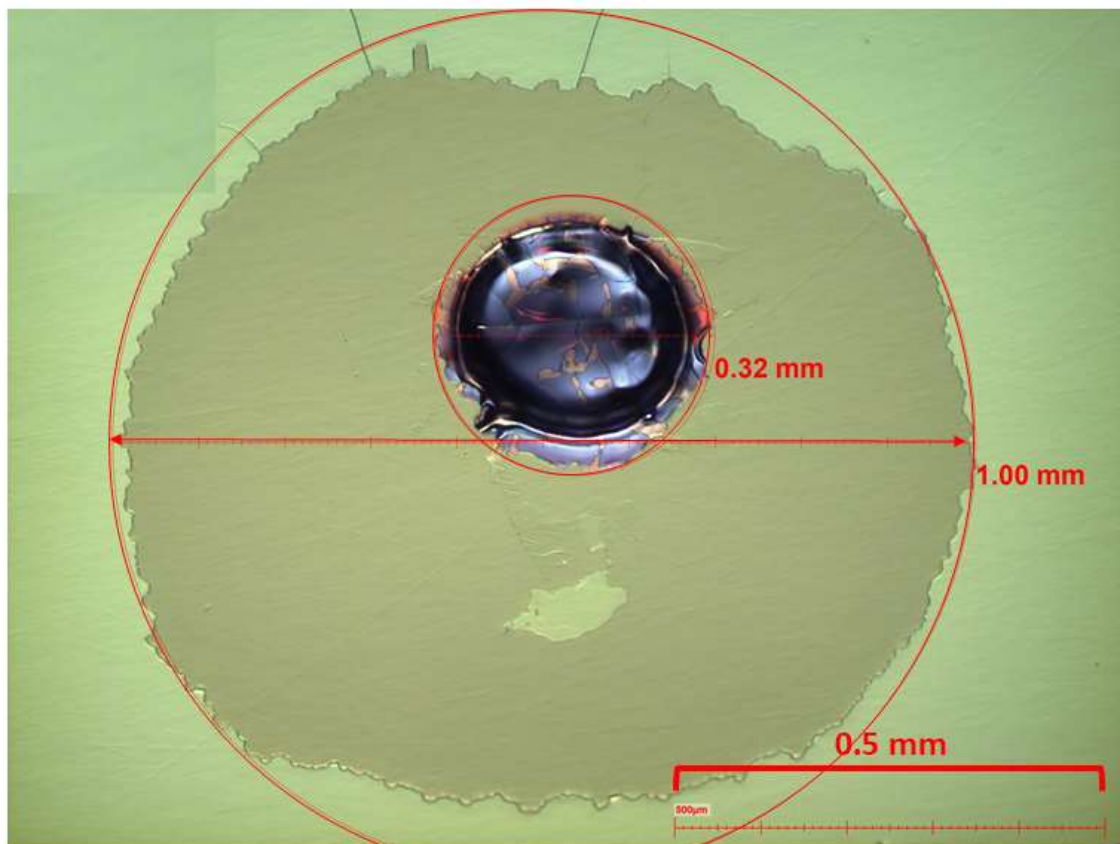
Peeling of reflection coating on the edge of the mirror.



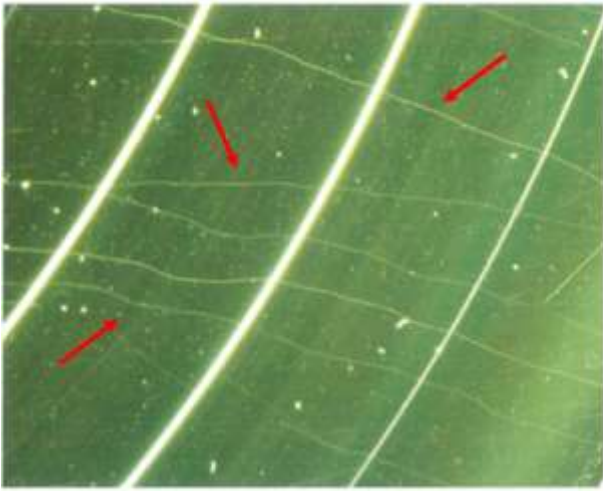
Peeling of coating on the edge of the element.



Deep dig with uplift of the IR coating, total of \varnothing 0.69 mm (the dig itself of \varnothing 0.26 mm).



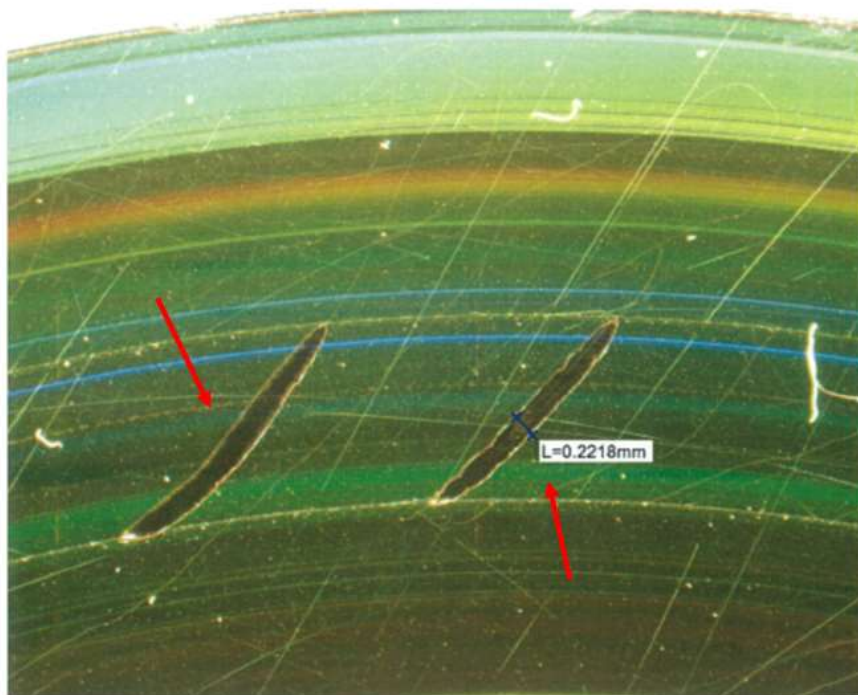
Dig of \varnothing 0.32 mm with coating peel on \varnothing 1.00 mm.



Cracks on IR coating of concave aspheric-diffractive surface



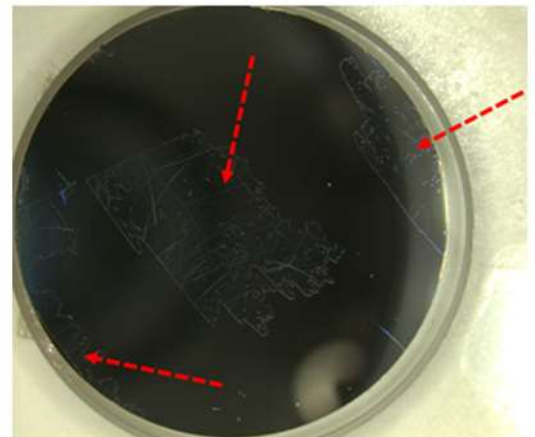
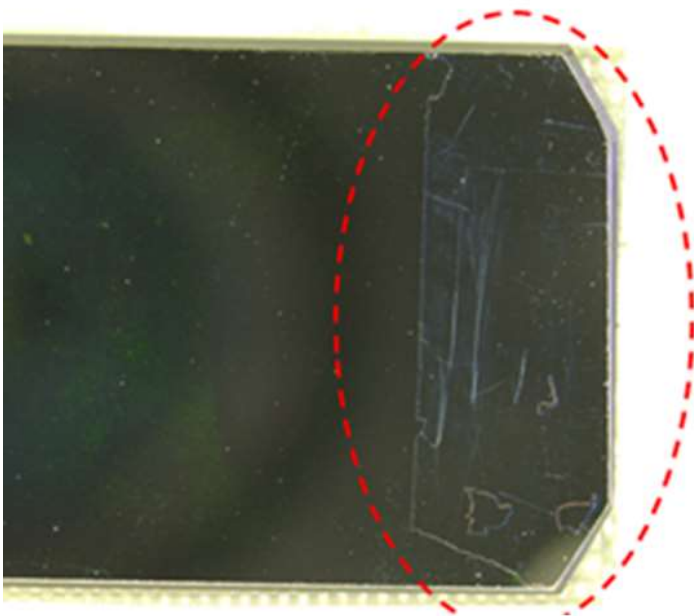
Peeling on IR coating of concave aspheric-diffractive surface, width of 0.1374 mm max.



Peeling of the IR coating on concave aspheric-diffractive surface between two diffractive zones, width of 0.2218 mm on adhesion test



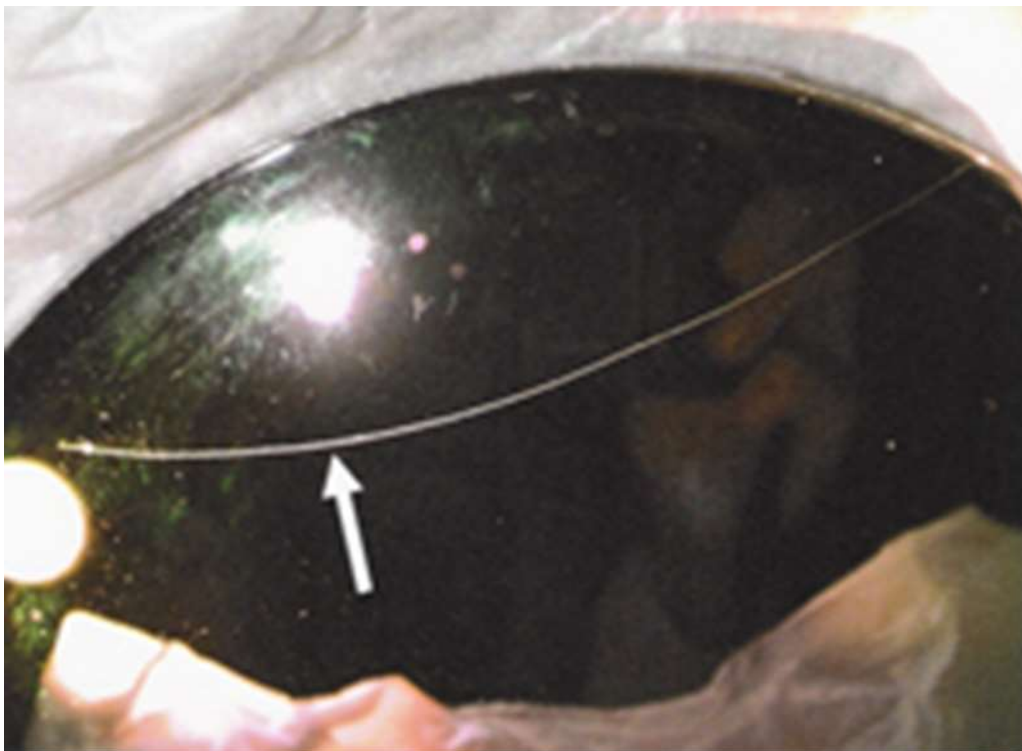
Scratches made by moderate abrasion followed the humidity test on real concave diffractive surface elements



Peeling of the protective coating of Silver on the witness sample (right) and on real mirror (left) at adhesion test followed temperature test of the same coating batch

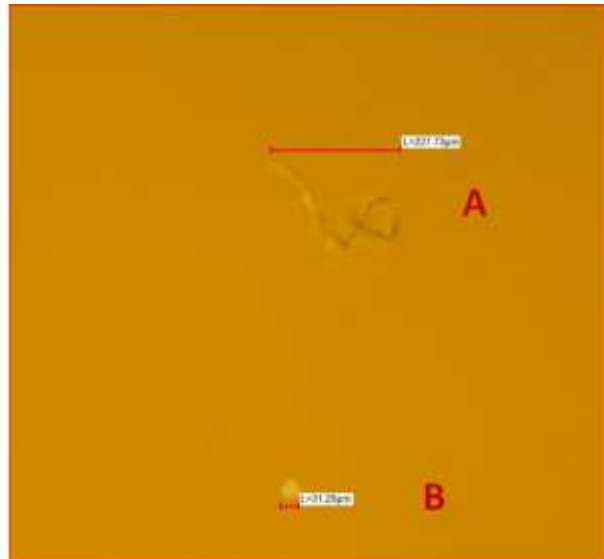


Disintegration of the coating of IR window, observed after opening the packaging

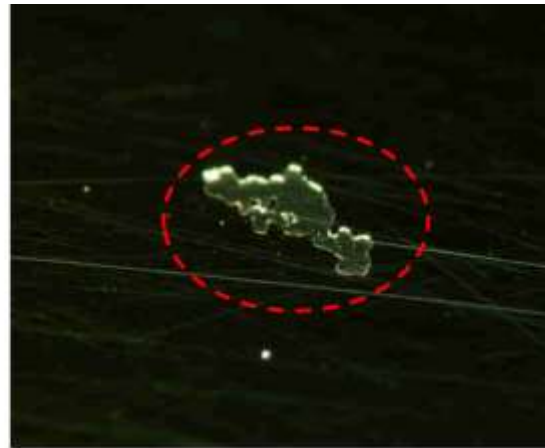


Scratch on outer convex surface

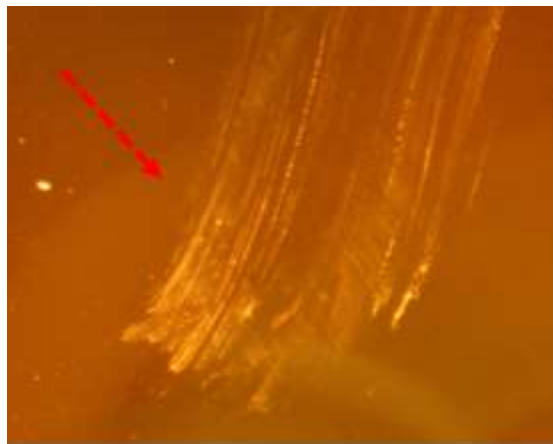
A - Swelling (maybe due to some kind of small hair under the coating due to cleaning process prior to coating process), L – 227.73 μm
B - Peeling – \varnothing 31.29 μm .



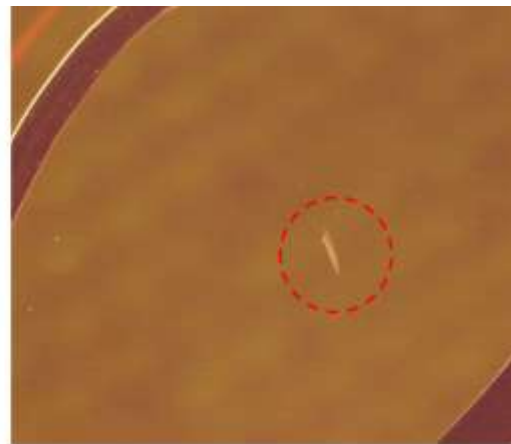
Some kind of Rubbing.



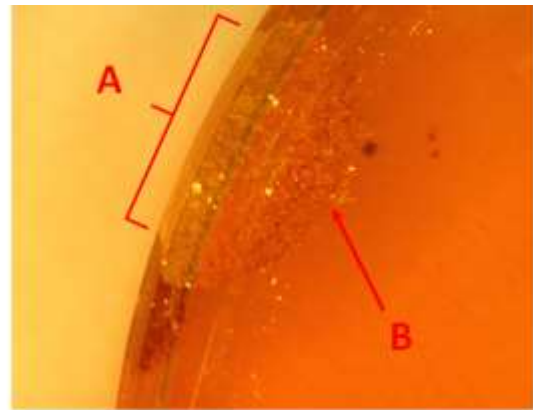
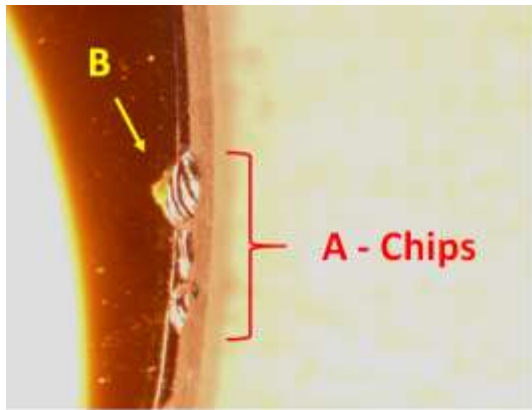
Peeling of the coating.



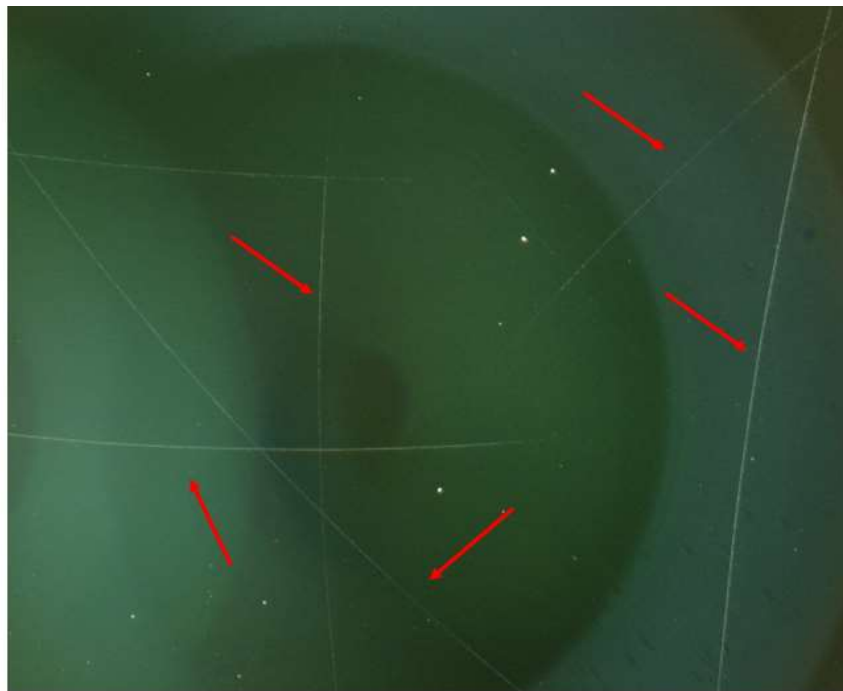
Rubbing due to bad handling
(on IR Coating).



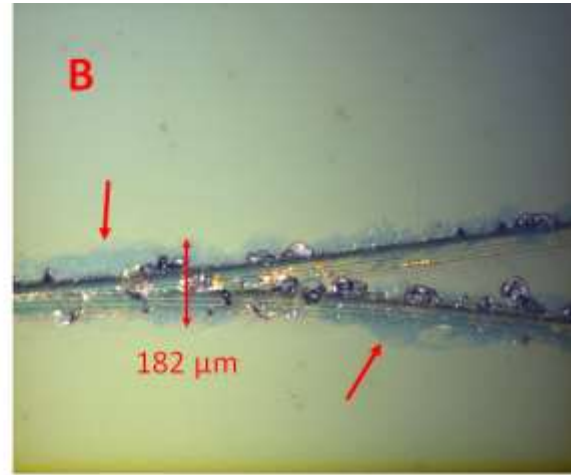
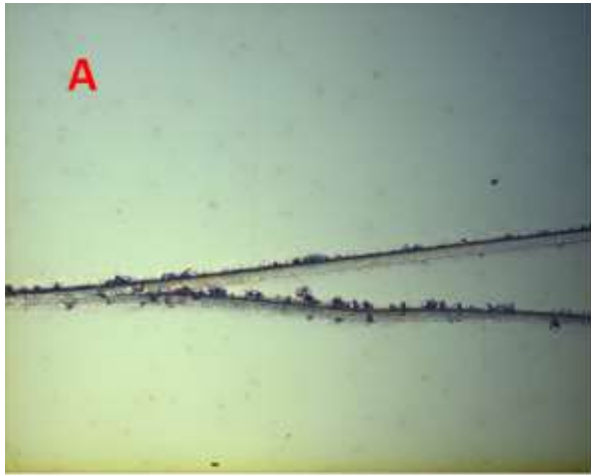
Some kind of defect
(on IR Coating).



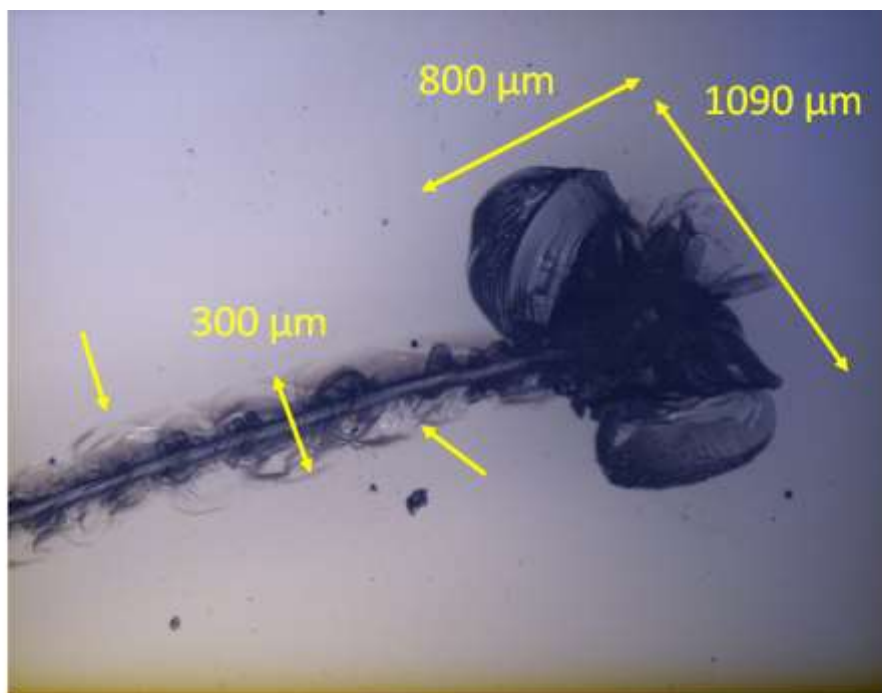
Mechanical damages due to production or handling process (A) at the edge of the element that penetrate the coated surface (B).



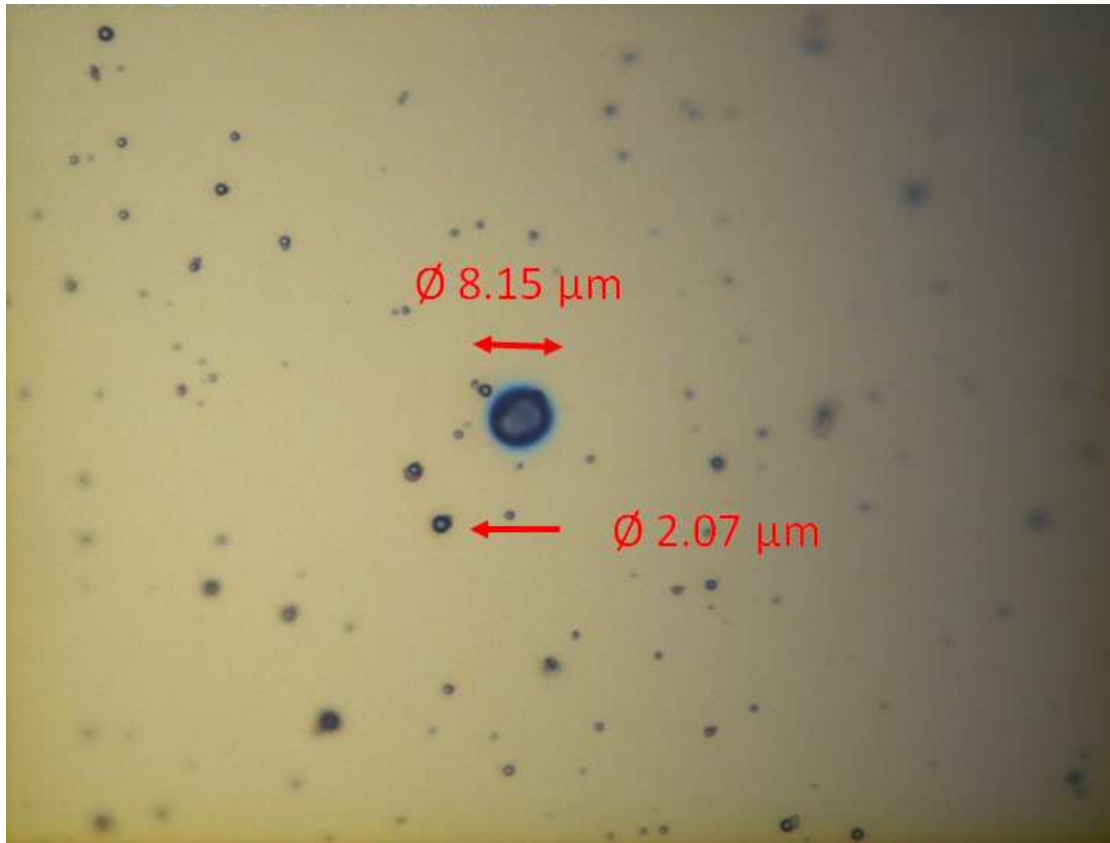
Sleeks (very thin polishing hairline scratches, seen also after coating process). Usually they do not influence on the functionality.



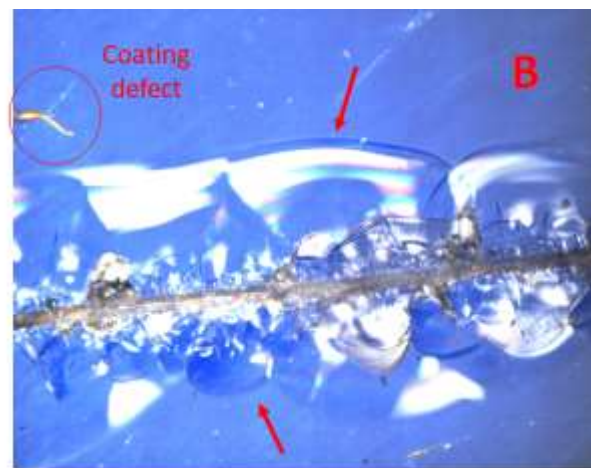
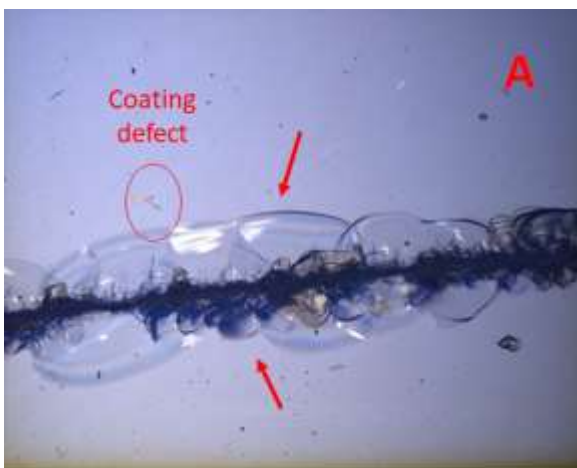
Scratches on coated surface. The same defect but the right picture (B) us with higher magnification than A and around the scratch (and part of it) we can see inner cracks.



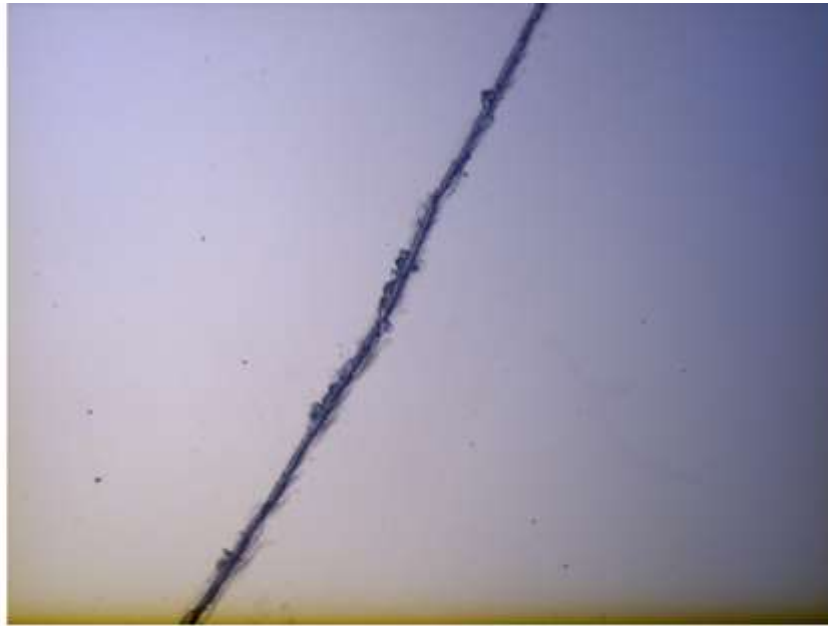
Dig with scratch with inner cracks on uncoated glass surface



Pinholes in IR coating



Same picture of scratch but B with higher magnification than A. on both we can see the inner cracks around the scratch.



Scratch on uncoated glass of 310 μm width with inner cracks around