

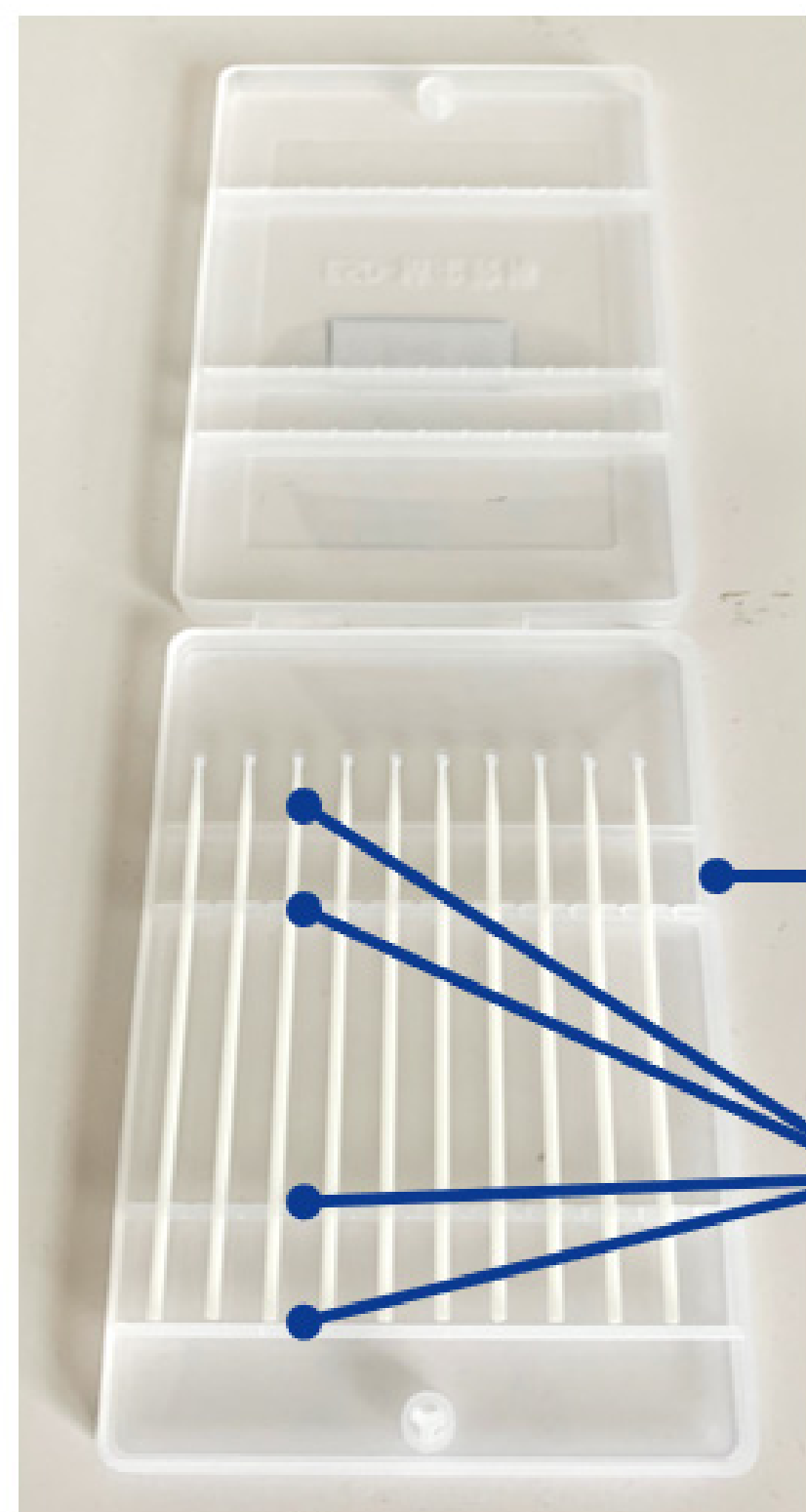
IDEAL-TEK STICKY SWABS

A fiber optic industry
breakthrough

60 reading time: 3 min.



GEL CLEANING STICK - OVERVIEW



- The gel cleaning tip conforms to the geometry of the ferrule end face
- The cleaning process is a quick touch to the end face
- The tackiness of the gel material captures without leaving a residue behind on the ferrule face

Shell case to keep the cleaning tips pure

3 molded stick holders and back plate for securing sticks

10 sticks to a case

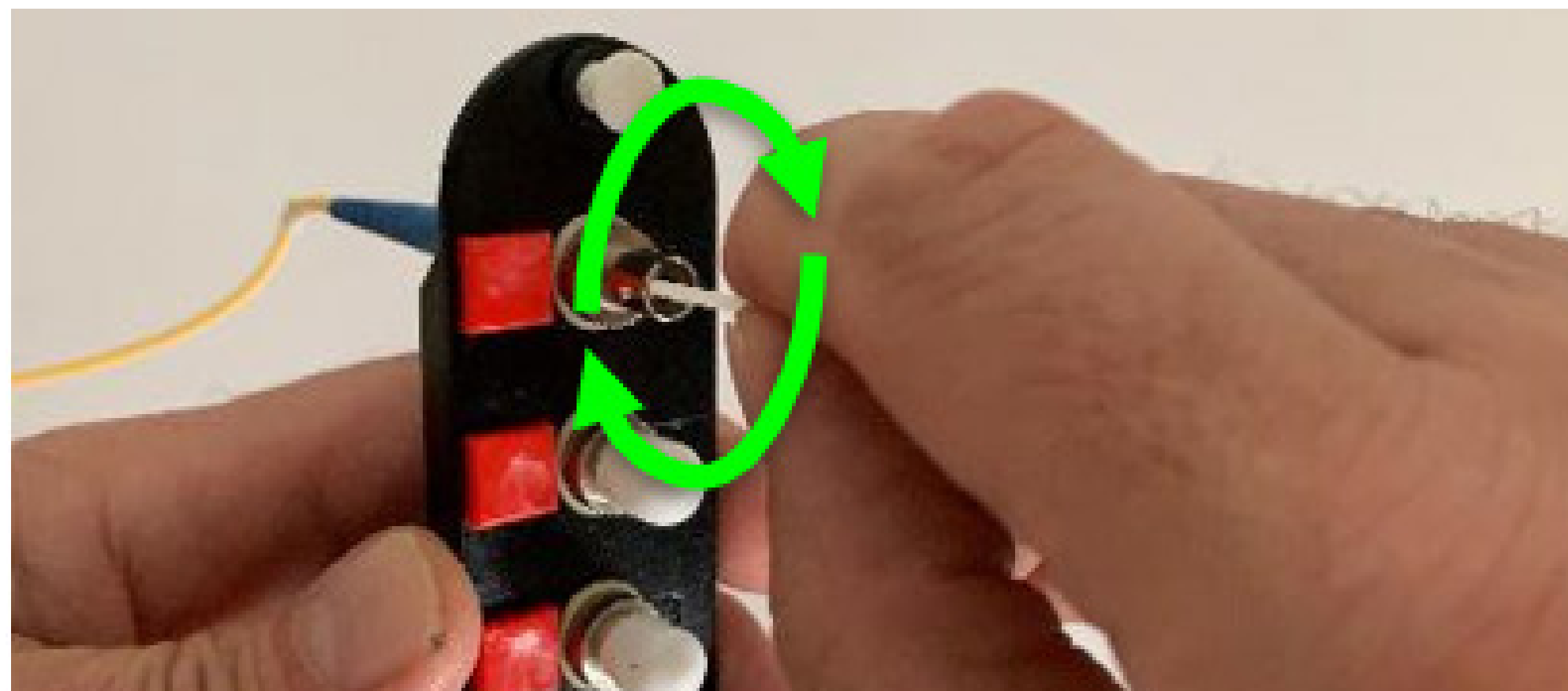


View of the gel cleaning tips



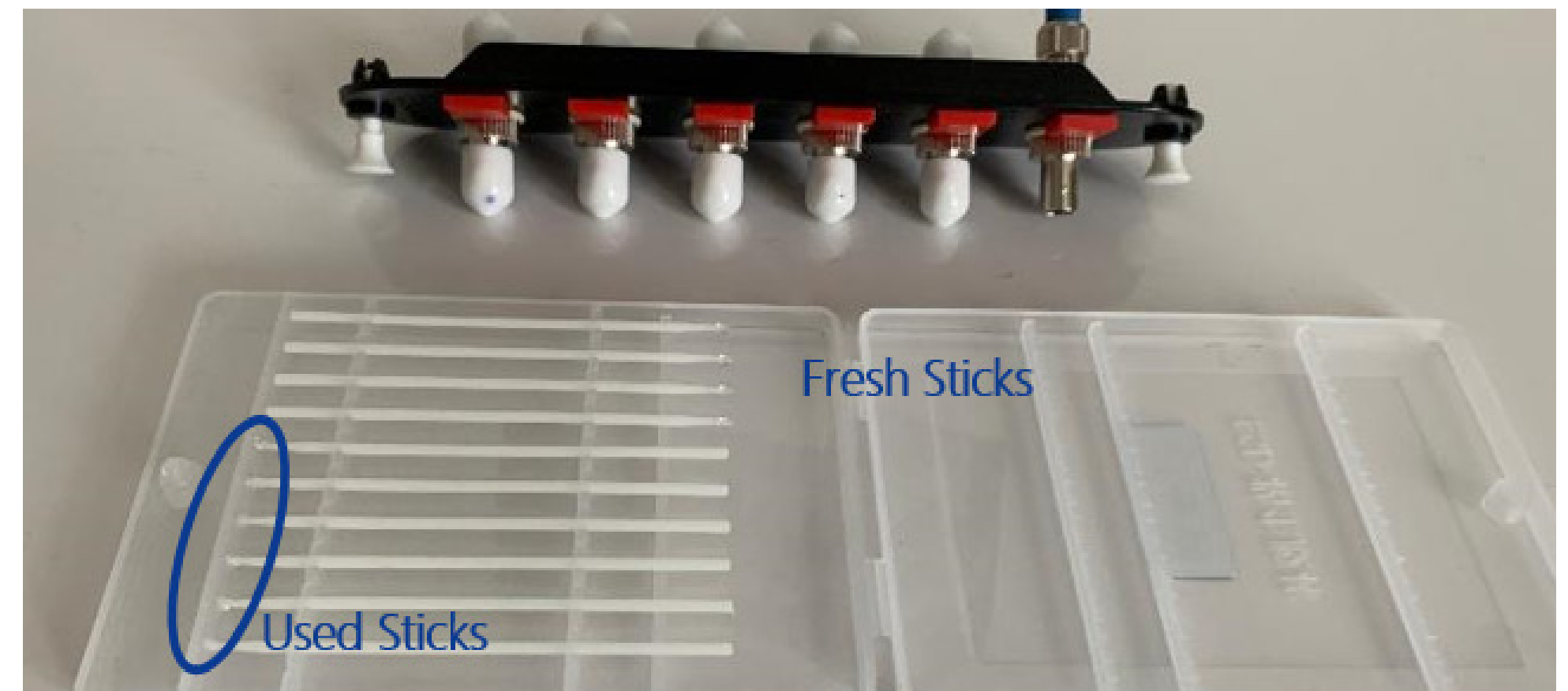
CLEANING PROCESS NOTES

- 1 Take one stick from the case and insert it into the socket or adapter port.
- 2 Rotate the cleaning stick going in the same direction making 3 or 4 full rotations
- 3 Replace the used stick into the case with the gel tip turned the opposite way touching the back plate.



NOTE for cleaning hardened and unmated connectors

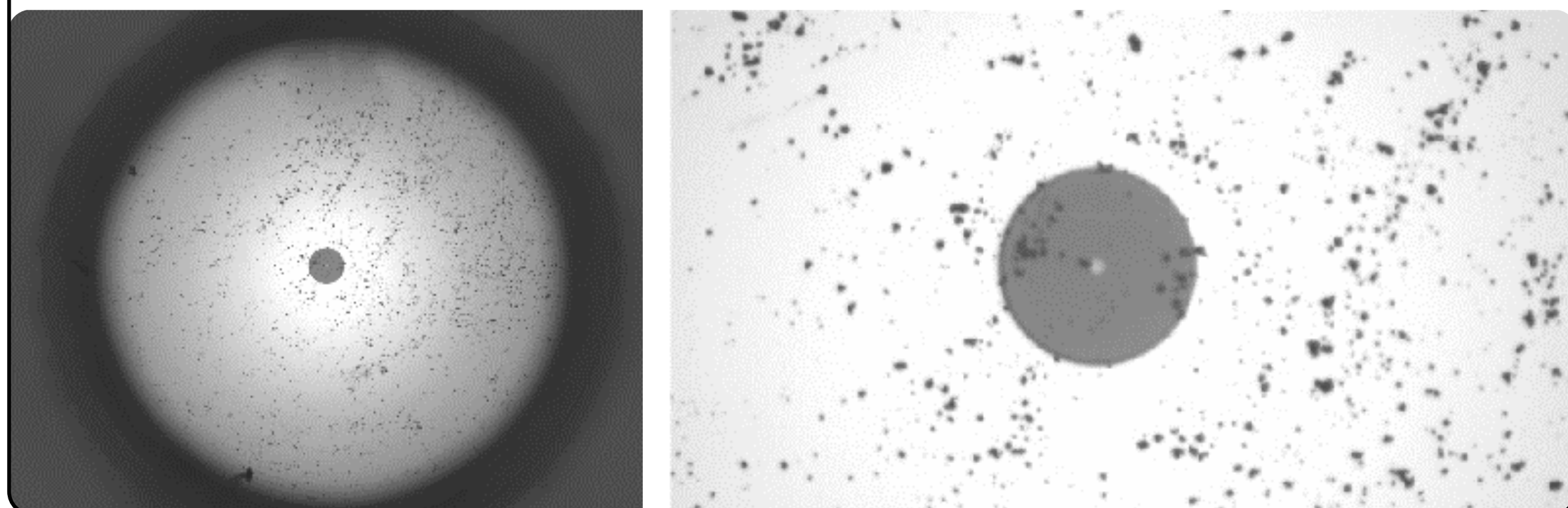
Operators could use an inspection scope tip or adapter to aligning the gel stick to assembly end face.



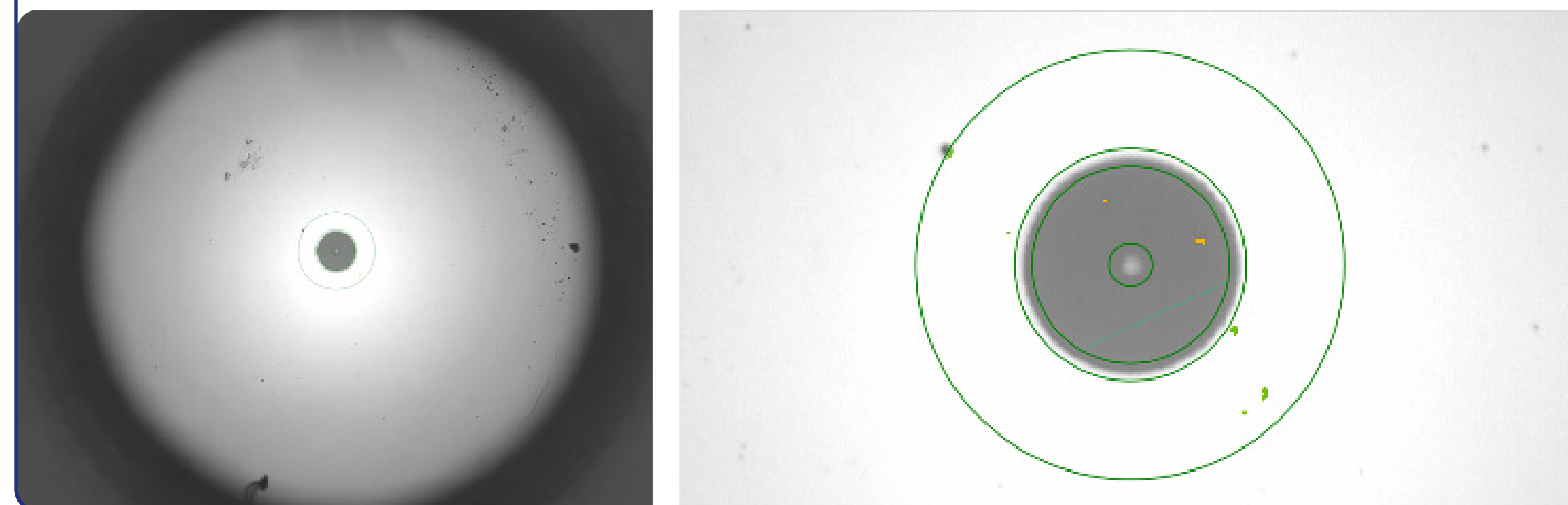


CLEANING E.G. 1 – HIGH LEVEL OF FINE TEST DUST

Before Images of end face contaminated with fine test dust



After Images of end face contaminated using the gel cleaning stick

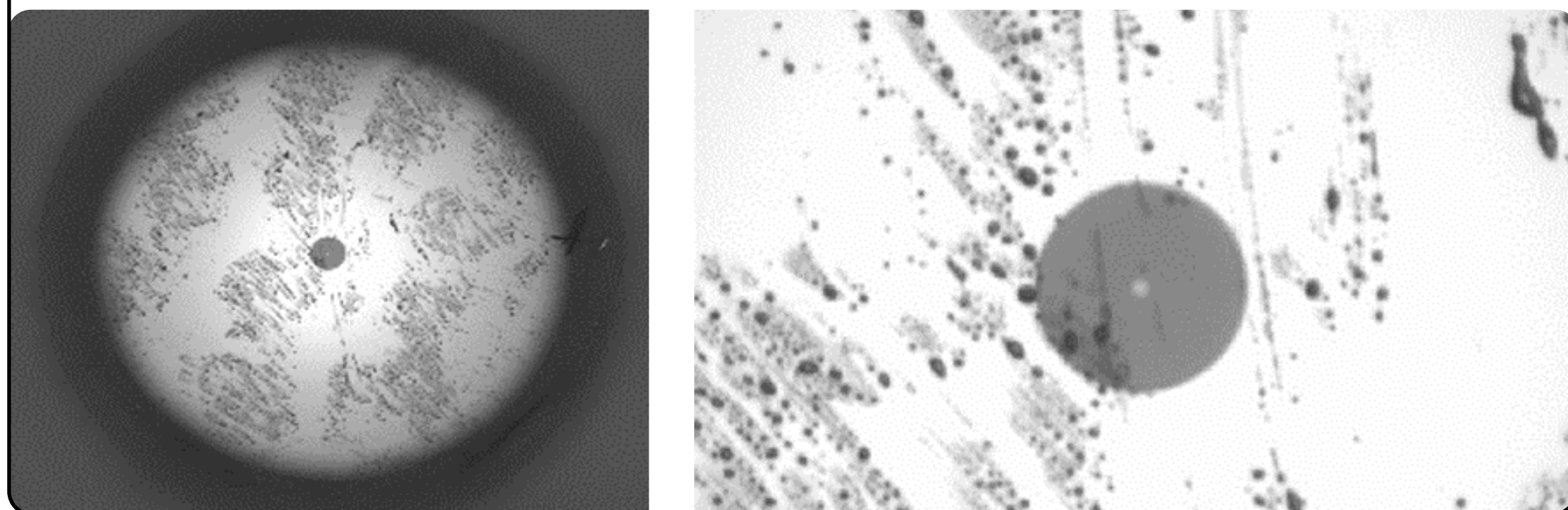


✓ The end face tested to IEC 61300-3-35 for singlemode end face with a UPC polish

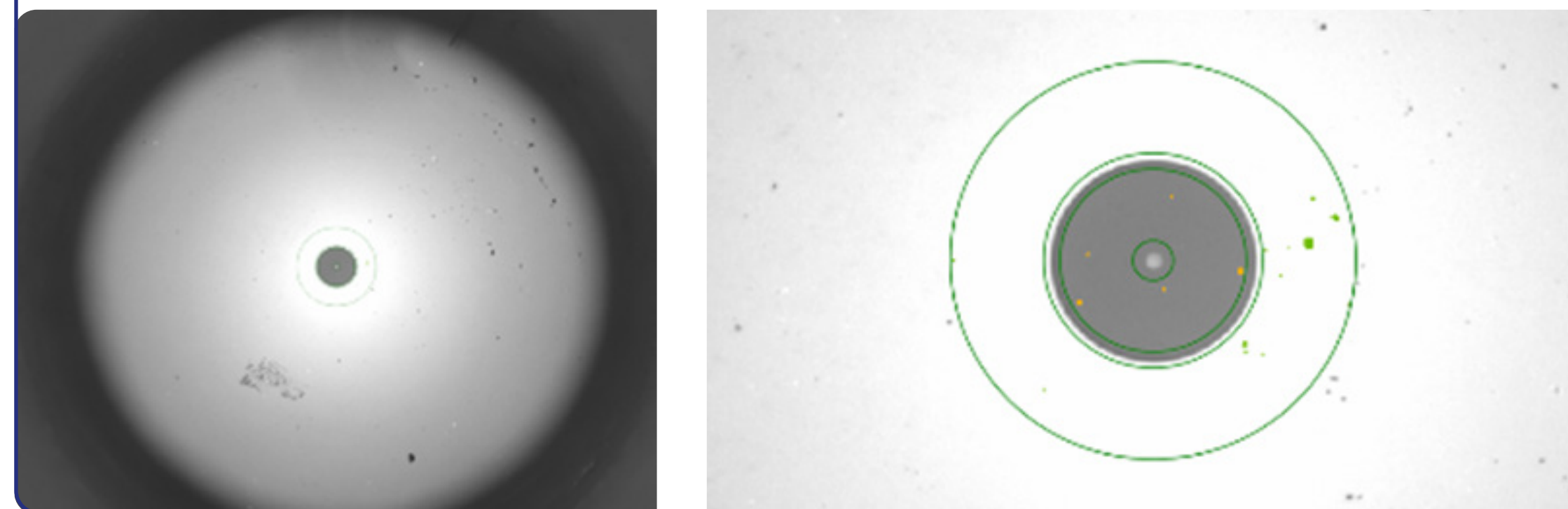
✓ End face passed



Before Images of end face contaminated with finger print



After Images of end face contaminated using the gel cleaning stick

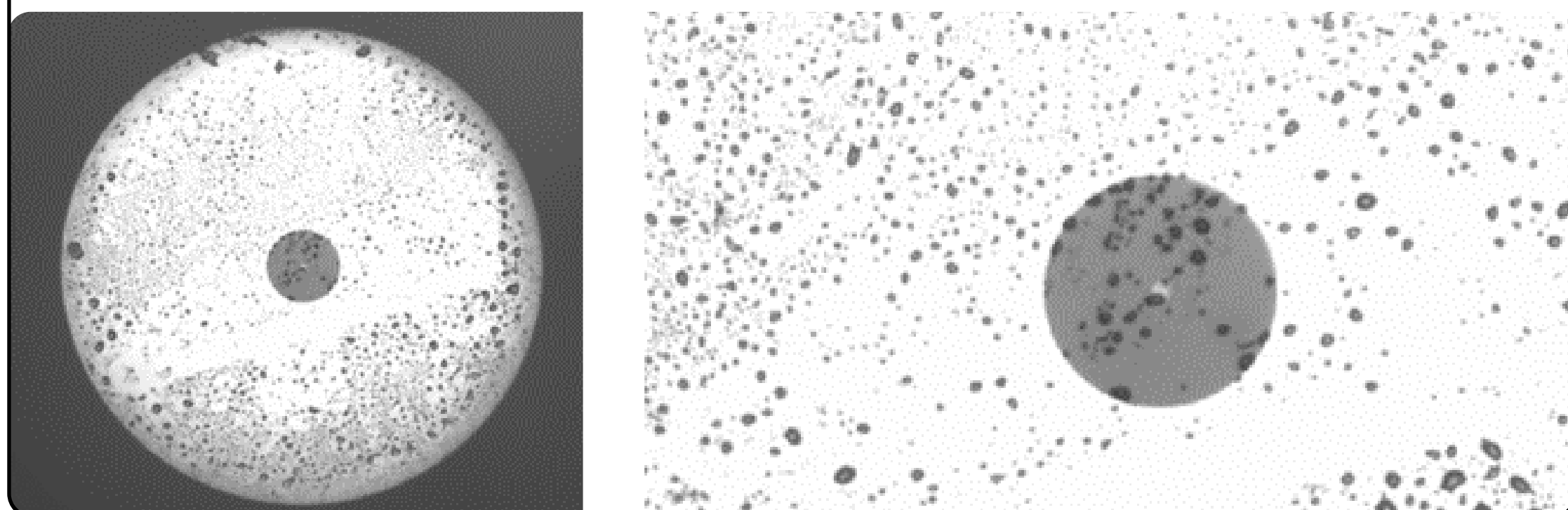


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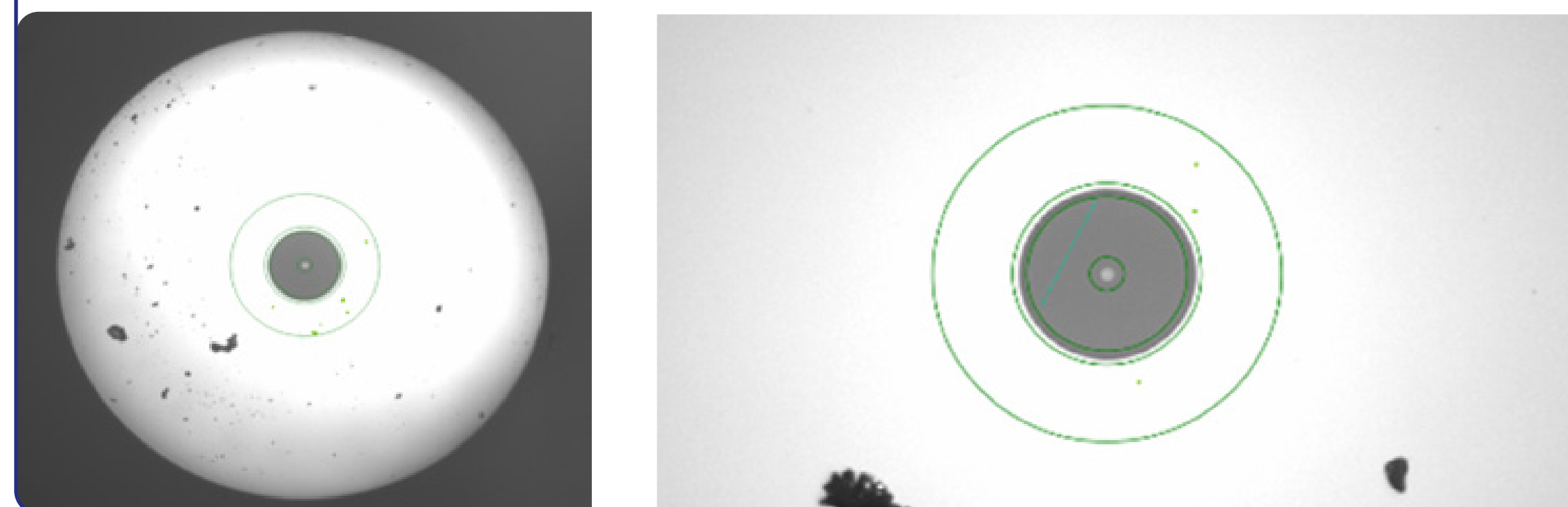
✓ End face passed



Before Images of end face contaminated



After Images of end face contaminated using the gel cleaning stick

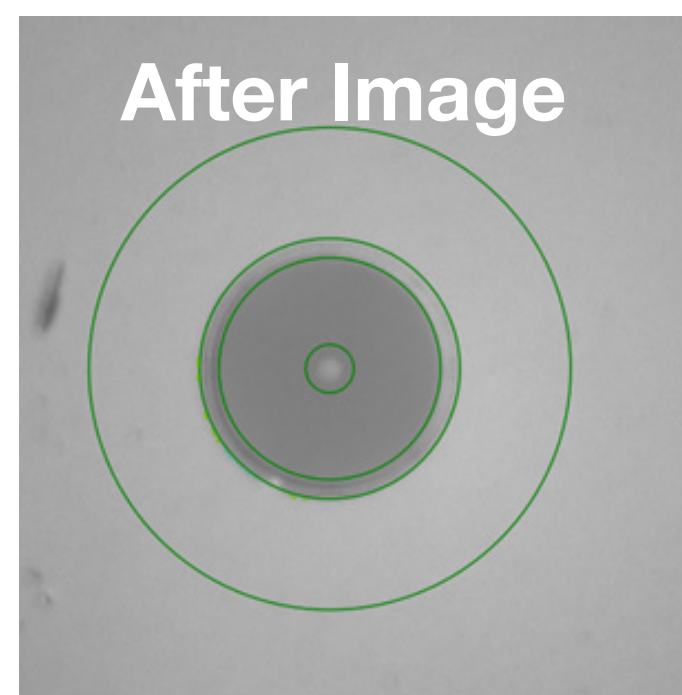
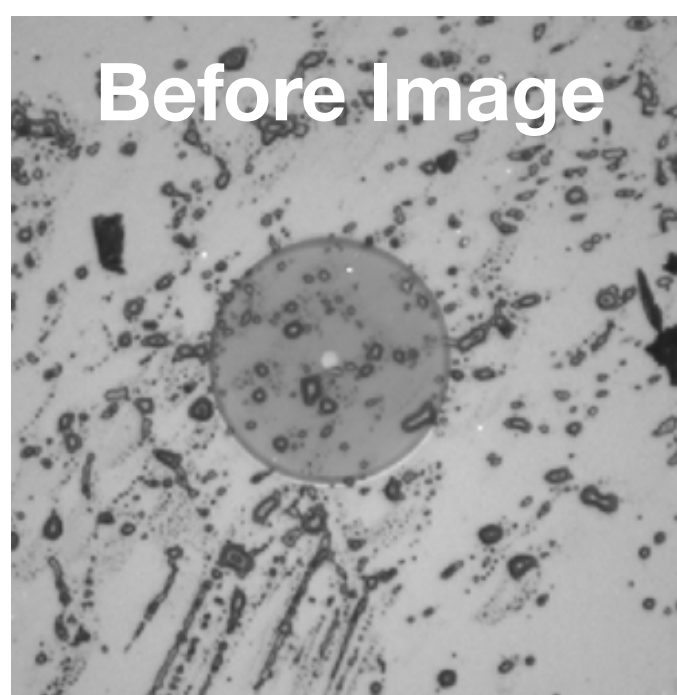


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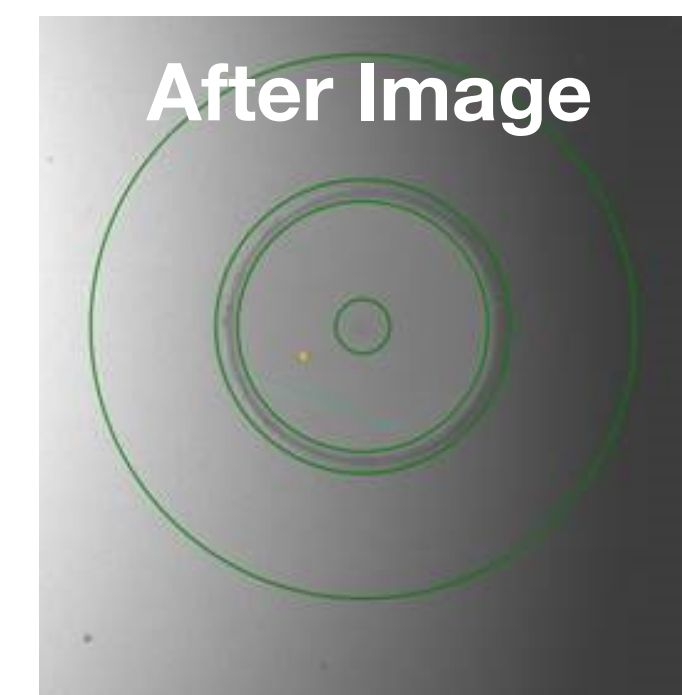
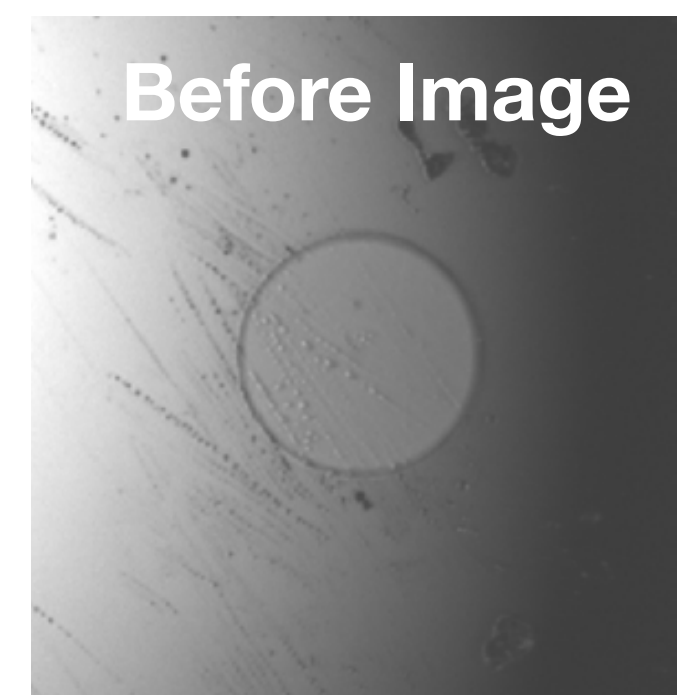
✓ End face passed



Cleaning ST/UPC in Adapter



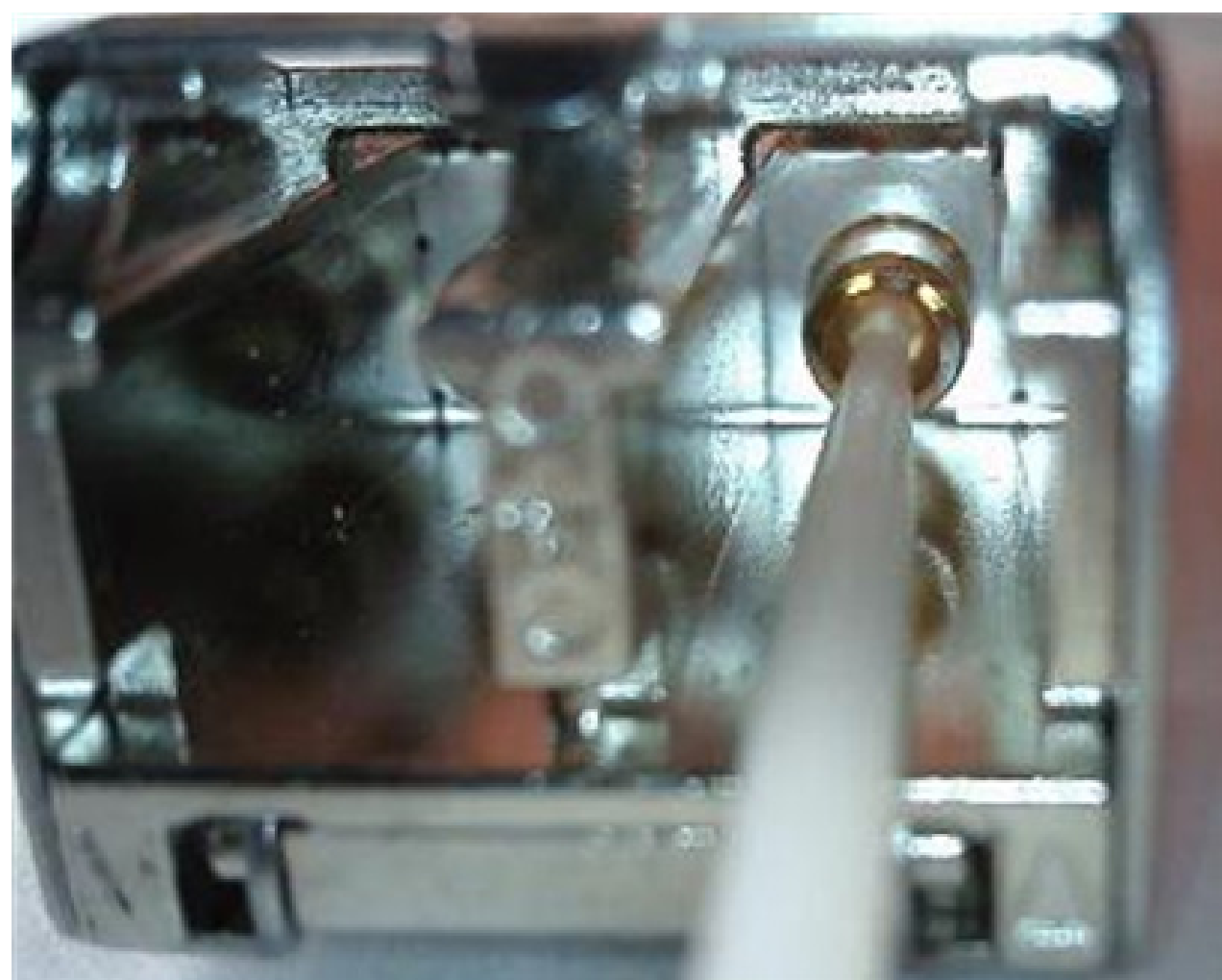
Cleaning SC/APC in Adapter



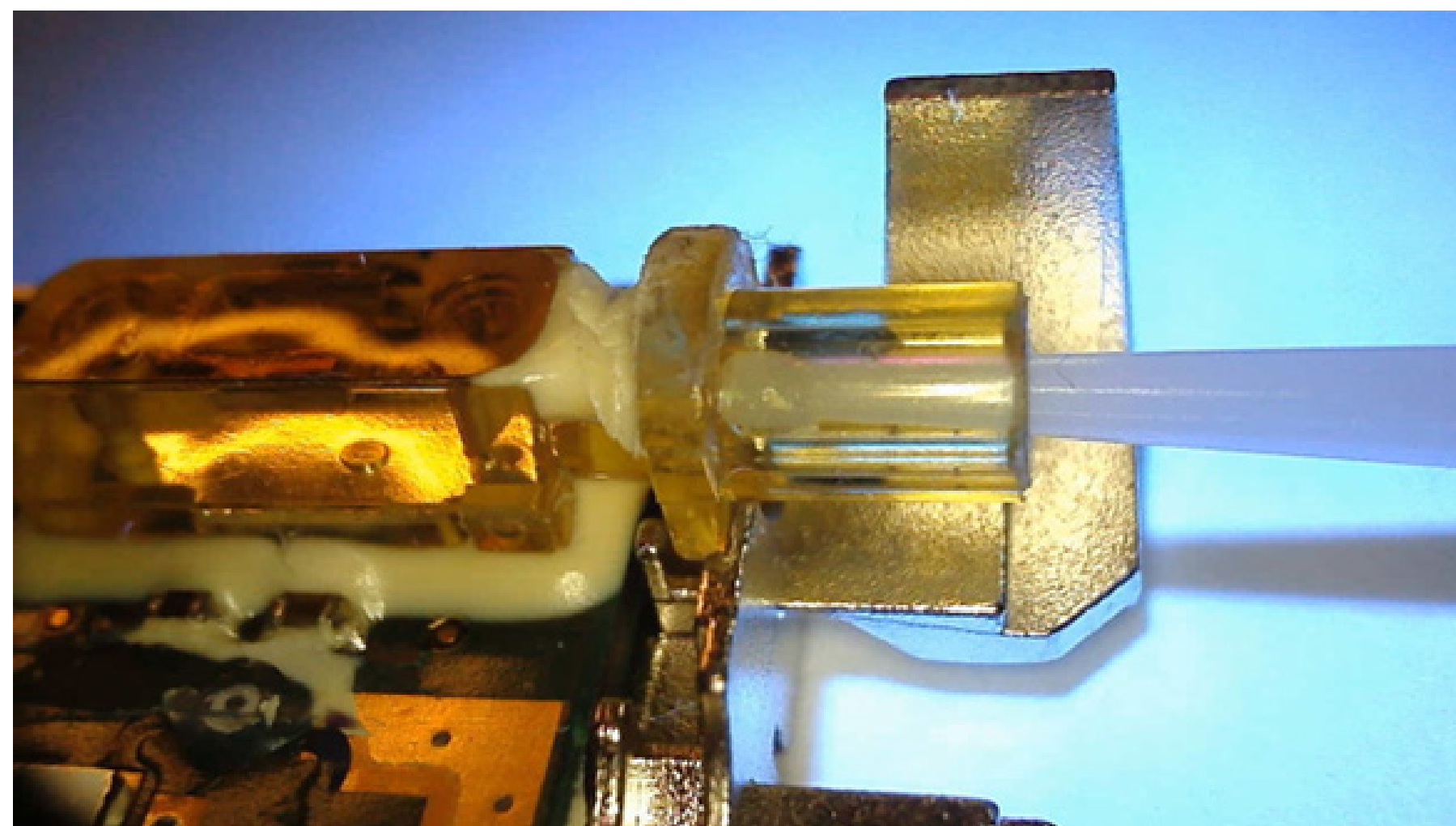


GEL STICKY SWABS USED TO CLEAN SFP+ TRANSCEIVERS

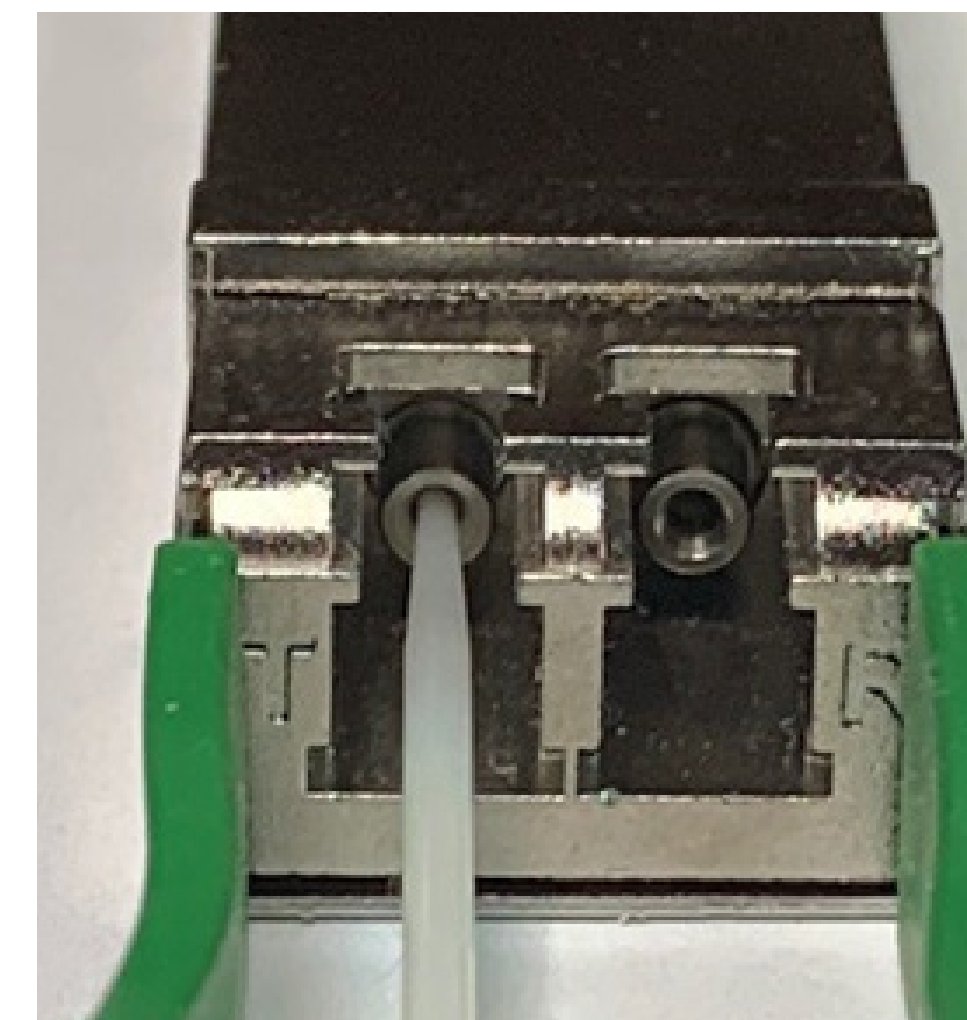
Gel stick
in standard SFP+ port



Gel stick in lens based
optical sub assembly of a SFP



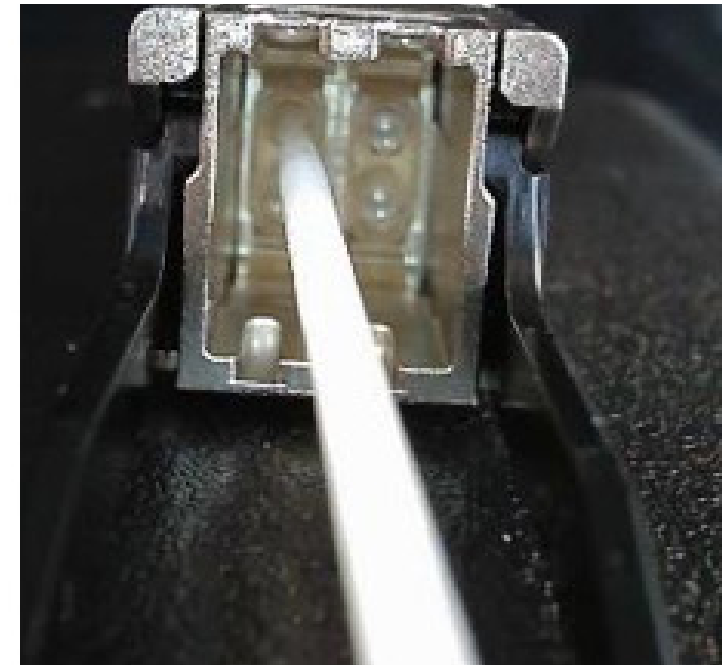
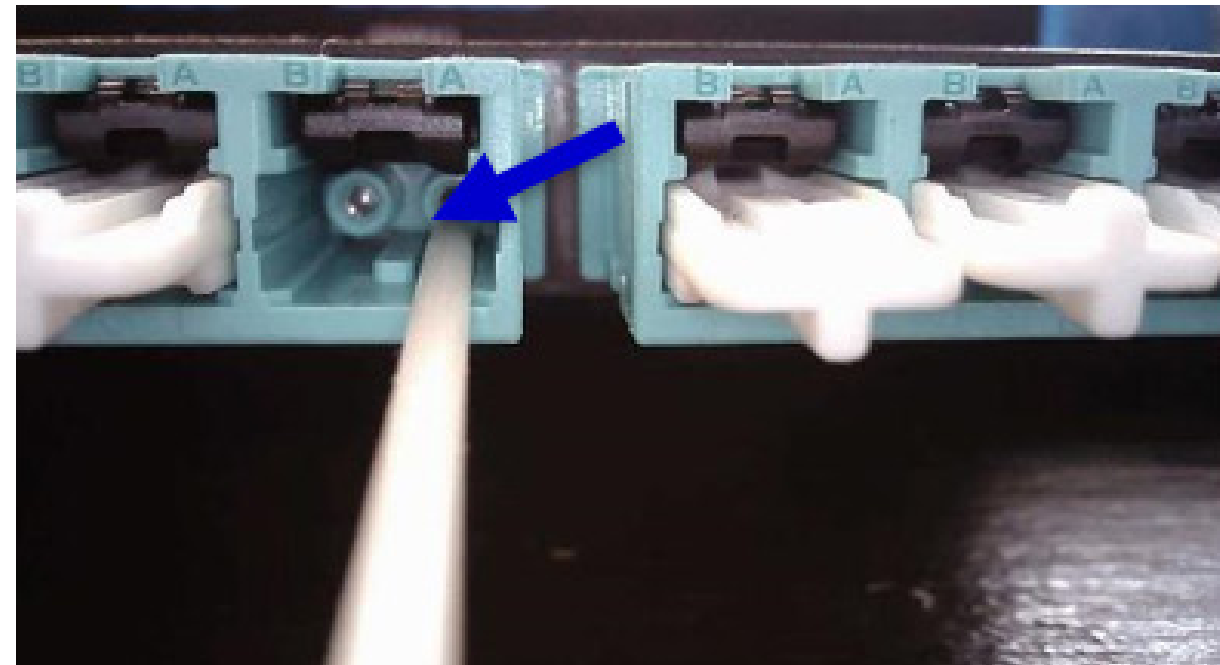
Gel stick
100G transceiver



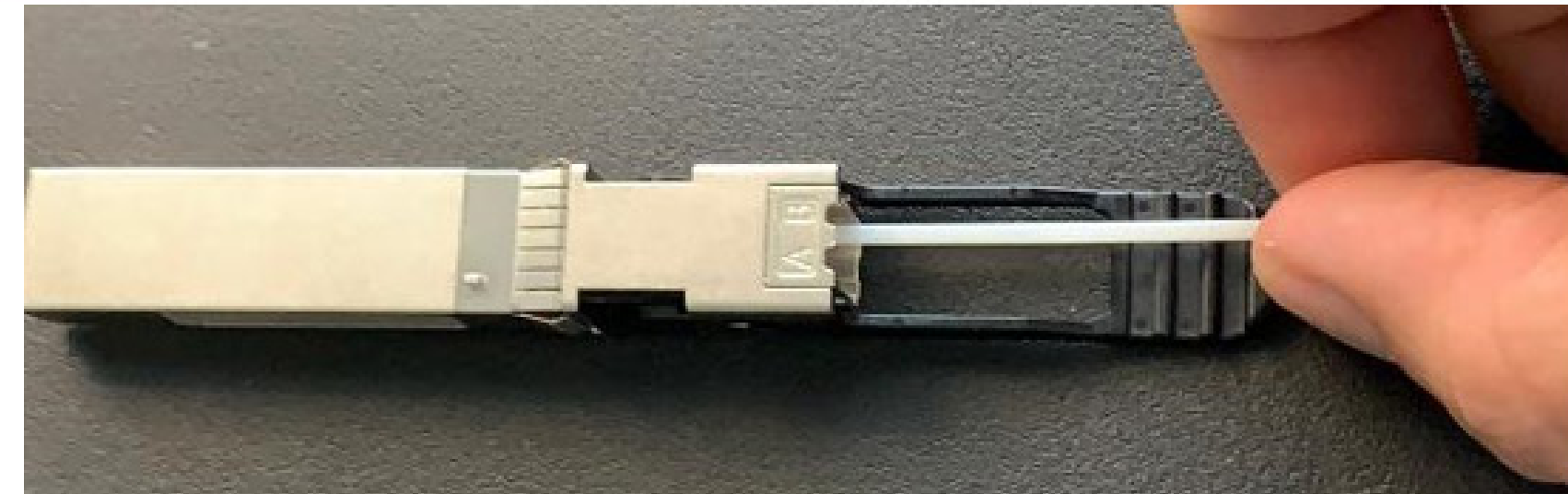


GEL STICKY SWABS USED TO CLEAN SFP+ TRANSCEIVERS

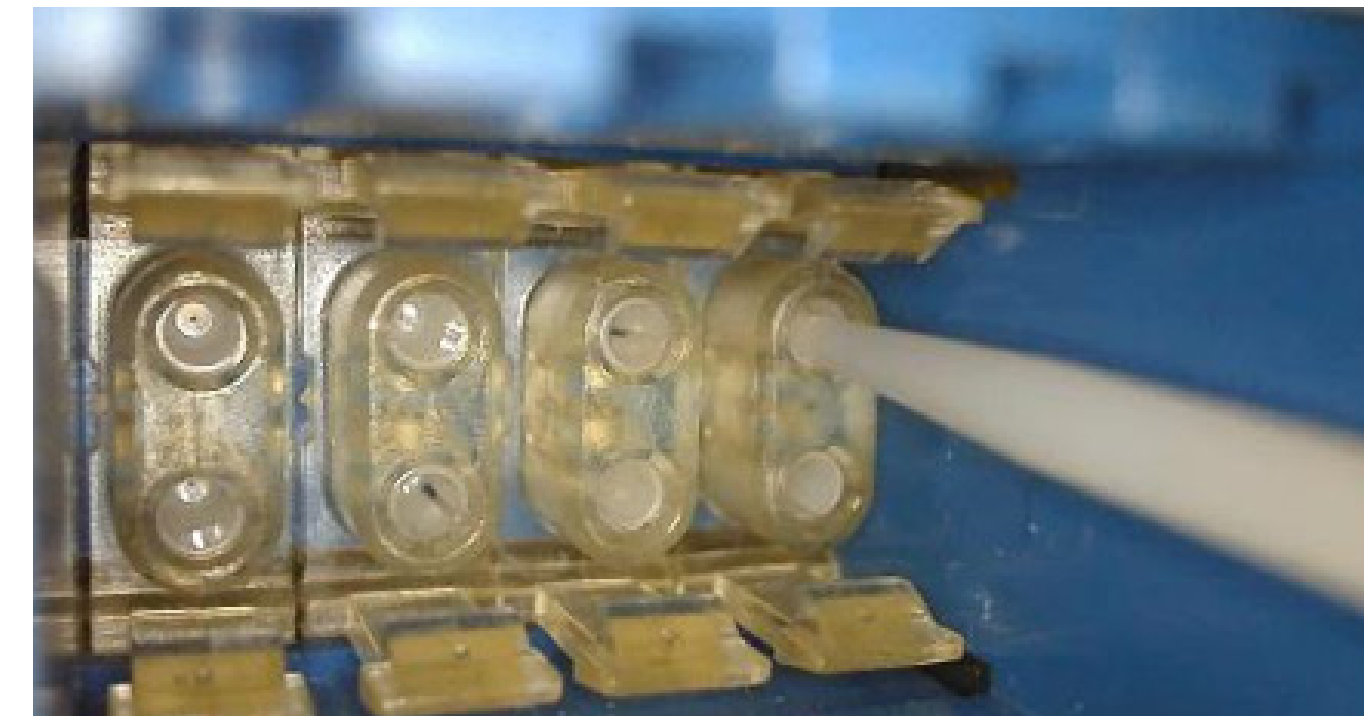
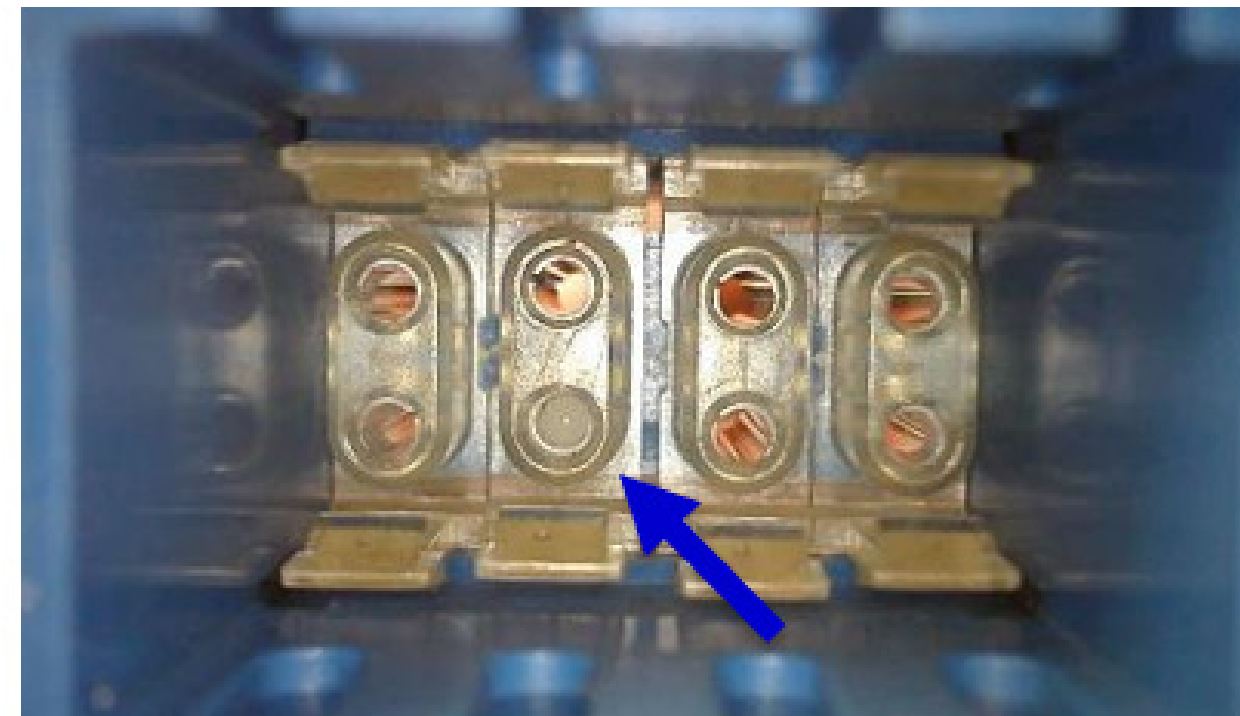
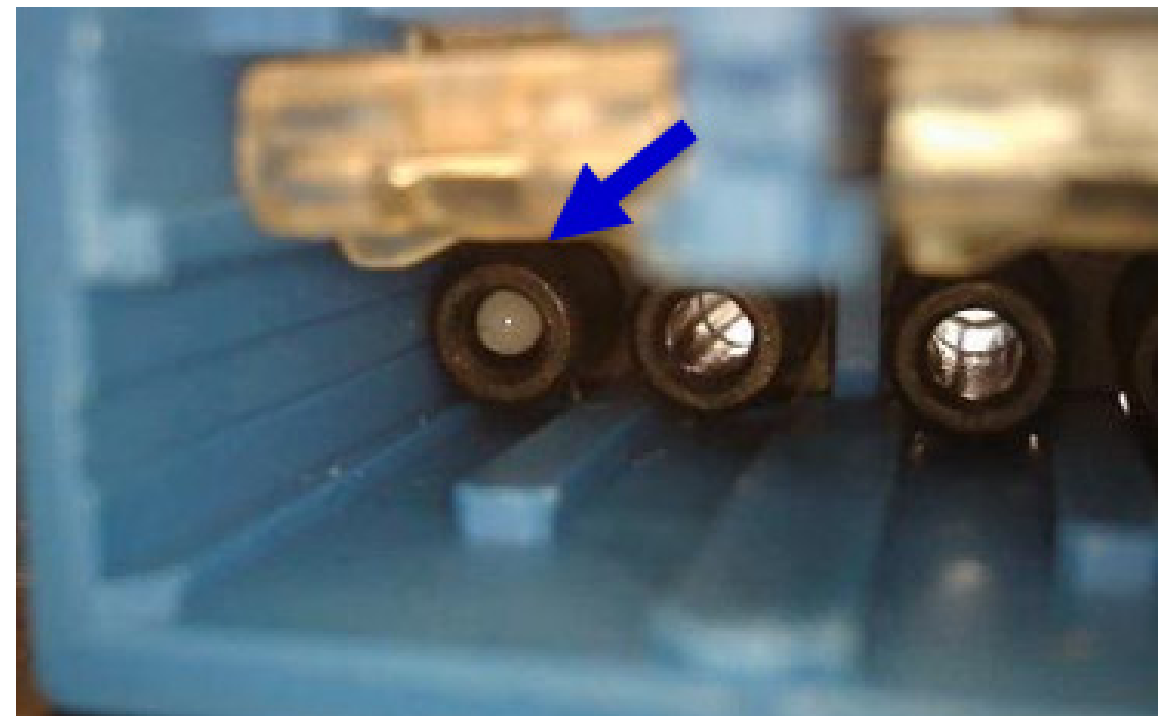
1.0 mm stick in CS Adapter port

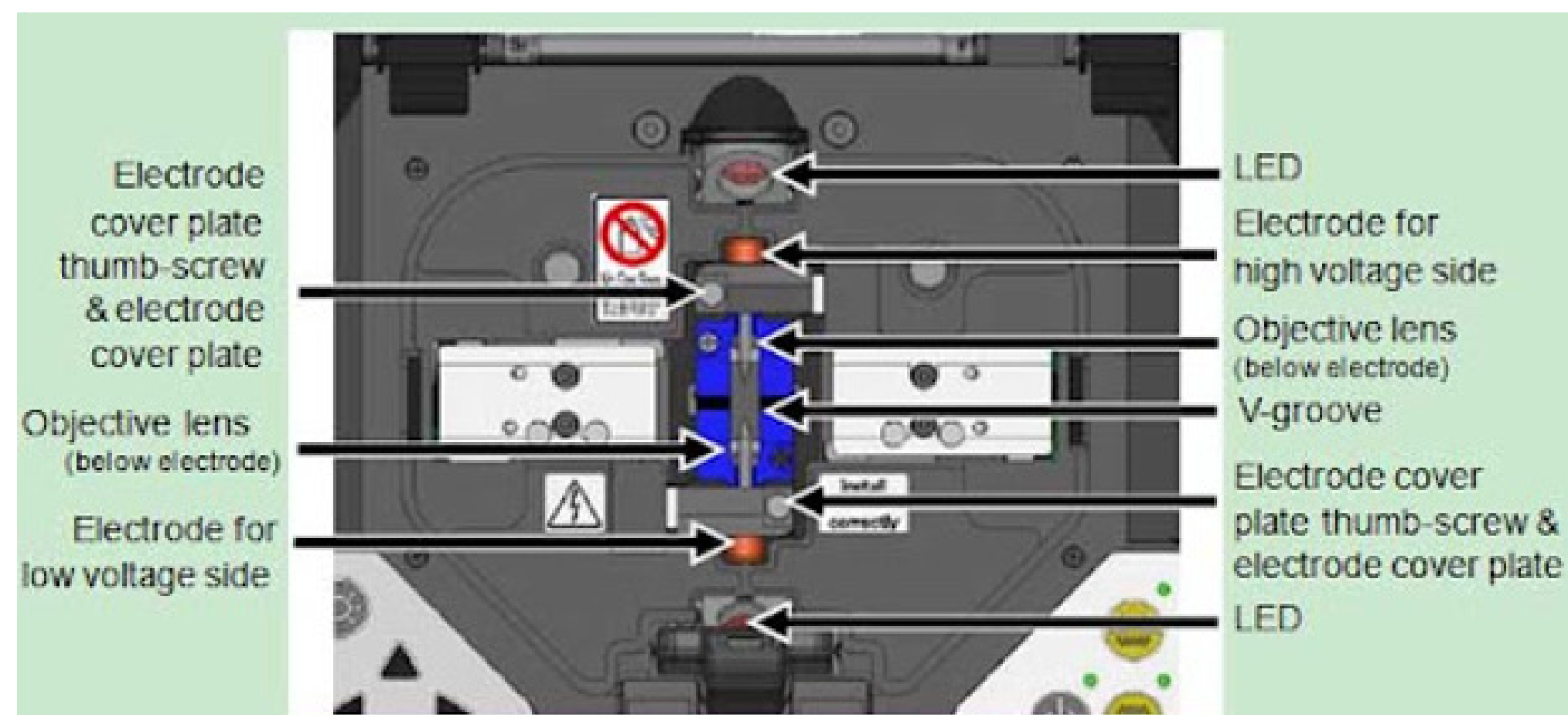


1.0 mm stick in SN interconnect of SFP-DD transceiver



1.0 mm stick in SN Adapter port

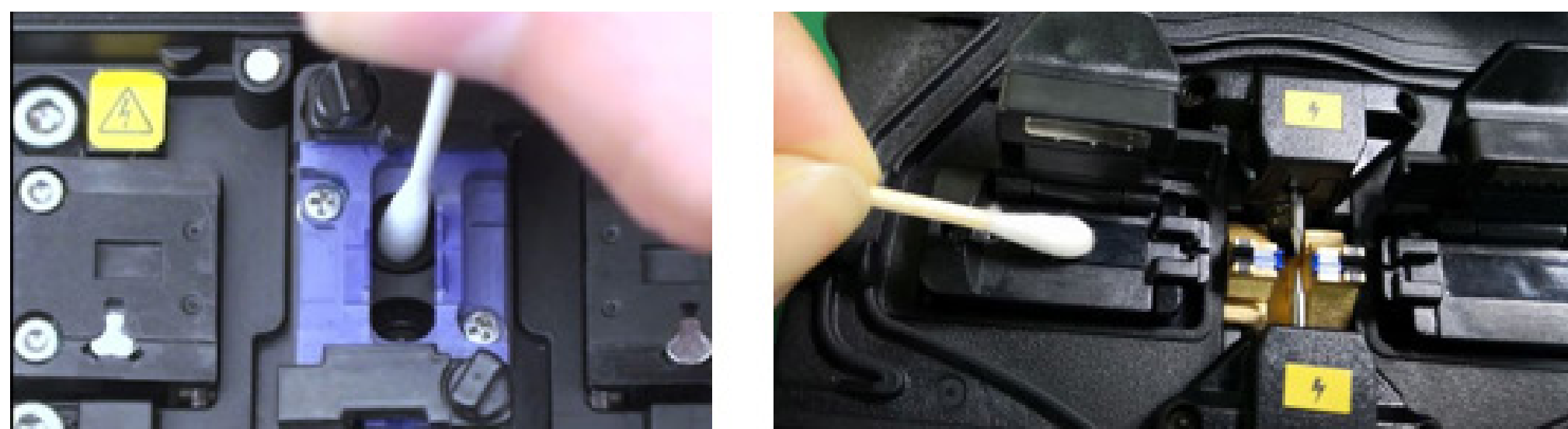




Fusion slicers need to be regularly maintained by cleaning the V grooves of the fiber holders and the objective lenses.

These parts will get contaminated with:

- Ash from the electrodes
- Dusts from the tight buffer and acrylate fiber coating
- Dust and moisture from the air

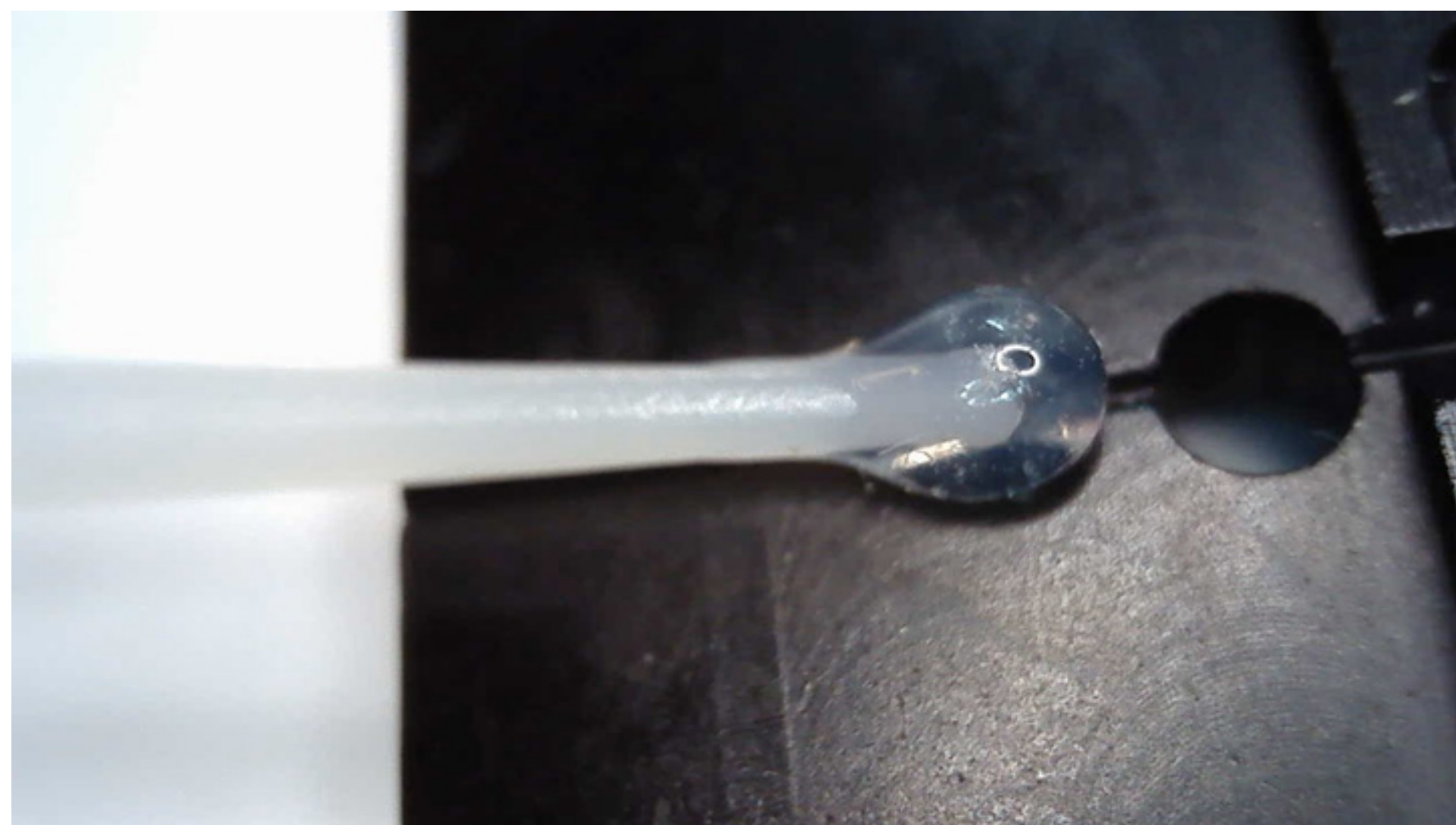


Companies are supplying clean kits using cotton swabs, foam swabs, brushes and cleaning solvents.



The gel tip conforms to the V groove for cleaning the dusts trapped in the channel.

The gel tip is a safe and effective way to clean the objective lenses and the mirrors the fusion splicers depends on for aligning the fibers.





1.
White test dust applied to the fiber holder



2.
Swab used to wipe the V groove and around the inner channel surface.



3.
End result after wiping the fiber holder using a single stick. The V groove is clean and the area around it are clean. No scratches or residue streaks whatsoever.



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