

## Wet Cleaning Procedure of Saturable Absorber Mirrors (SAM)



### Needed Equipment:

- High purity solvent e.g. ethanol, methanol, acetone or similar
- Lint-free lens cleaning tissue (e.g. Thorlabs MC-5)
- Tweezers and forceps

**Do not touch any component by hand. It is highly recommended to wear gloves (impenetrable for the used solvent) during the whole cleaning process!**

First of all make sure the contamination cannot be removed by blowing off using compressed air or nitrogen. If it cannot be removed, please follow the steps below:

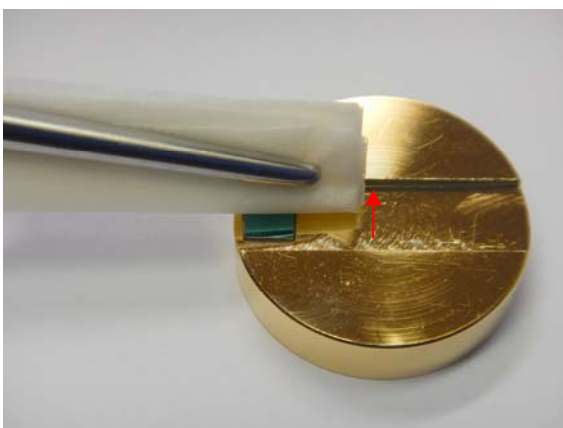
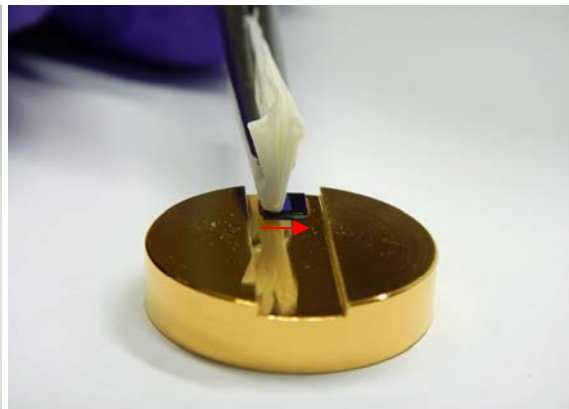
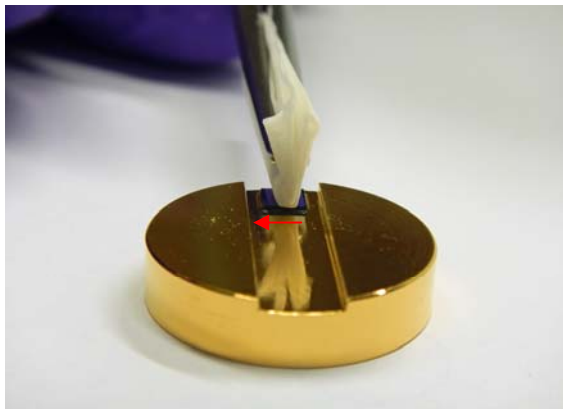
1. Please use a lint-free lens cleaning tissue and fold it several times. Afterwards clamp it into forceps as shown on the picture below. Do not touch any part of the tissue that will touch the chip.



- Wet the folded tissue completely with a few drops of solvent and shake off any excess liquid.



- Place the clamped tissue on the optical surface and slowly wipe straight across, beginning from the center to one edge and following from this edge to the other edge of the optical surface. Please do not apply slight pressure only and please use a fresh part of the tissue for each wiping step.



**Schematic sketch of wiping procedure**



Make sure, there is no residual solvent on the optical surface after wiping. Because this solvent can dry out and leave residual particles. In this case use compressed air or nitrogen to blow off this excessive fluid immediately.

The ideal wetting of the tissue is, if the surface dries during or directly after wiping.