

PK-100 polishing kit – for reconditioning NaCl, CsI and KBr windows

Scope of delivery:

- 2 glass plates – a matt one for grinding and a smooth one for polishing
- 1 pack of 6 self-adhesive Selvyt[®] polishing pads
- 1 bottle of 400 grain coarse abrasive
- 1 bottle of 600 grain fine abrasive
- 1 bottle of cerium oxide polish
- 1 empty bottle for alcohol
- 2 brushes
- 1 Selvyt[®] polishing cloth

Grinding NaCl, CsI and KBr windows

Mix a fine slurry from a small amount of abrasive with sufficient alcohol on the matt glass plate.

Place the window in the slurry and move it in an approximately 10 cm long figure-of-eight pattern. After about 10 to 15 repetitions, rotate the window 90° in order to achieve even wear. Make sure that the glass plate remains wet during the entire grinding process.

Use the 400 grain abrasive for coarse grinding and the 600 grain for finer work. Rinse the window in alcohol after each grinding step. Before changing the abrasive, rinse the glass plate in alcohol too – abrasion debris or dust can cause scratches on your window.

Polishing NaCl, CsI and KBr windows

Stick a self-adhesive Selvyt[®] pad on the polished glass plate. Mix a fine slurry of cerium oxide and water and brush it onto the rear third of the pad. Rub the window from the wet end to the dry end of the pad with rapid movements. About 25 repetitions are sufficient to polish the window. Follow up with a further 10 repetitions, but this time only on the DRY end of the pad. Finally, use the Selvyt[®] polishing cloth to dry the edges of the window.

IMPORTANT: In order to avoid smearing the window, we suggest working with rubber gloves or with finger cots.