



Case Study Lubricants for Glass Lab Instruments

IKV Group manufacture high performance lubricants formulated specifically for the needs of the industry for which we have been supplying across the globe for decades.

IKV's range of special fluorinated greases offer extreme high temperature stability and a high resistance to steam, water and corrosion without the need to use Sodium Nitrite.

These products are used as a lubricant and seal on glass laboratory equipment.

Hermetic sealing

Hermetic sealing of laboratory glassware involves using a Polytetrafluoroethylene (PTFE) seal or Perfluorinatedpolyether (PFPE) grease to get an air tight seal. The seal may be applied to the ground-glass surfaces to be connected, and the inner joint is inserted into the outer joint such that the ground glass surfaces of each are next to each other to make the connection. This helps provide a good seal and prevents the joint from seizing, allowing the parts to be disassembled easily.

Sealing allows chemists to easily see when a taper is leaking, as bubbles can usually be seen flowing through the taper.



It is important that the grease does not contain any silicone and does not emit carbon and VOC as this would influence the test results negatively.

Our PFPE grease can be used on applications involving a wide range of laboratory equipment including soxhlet extractors, stopcocks, separator funnels, schlenk flasks, round bottom flasks, pycnometer, Freidrichs condenser and Erlenmeyer bulbs.

Our product **IKV TRIBOFLON MYA 242 FG** offers:-

- Effective sealing
- Protection for the glass instruments
- Does not support biological growth
- Does not react with chemicals (Inert)
- Highly reduced wear at friction points
- A reduced coefficient of friction
- Absence of solid oxidation or formation of gummy residues.
- Lower volatility at high temperatures
- Wide operating temperature (-36 to 260°C)
- NLGI Grade 2 (also available in NLGI grade 0 and NLGI grade 1)

All materials used in the formulations of **IKV TRIBOFLON** appear in the positive list 21 CFR of the Food and Drugs Administration (FDA). This permits certification to **NSF Class H-1** according to National Sanitary Foundation requirements for Food Grade Lubricants.

