High-purity perfluoropolyether (PFPE) lubricants for ultra-high vacuum environments. Vapor pressure: 3.5 x 10^{-15} torr

A quartz conflat viewport gives optical access to vacuum chambers. Because of its low outgassing, TorrLube TLC-10 is the high-vacuum lubricant of choice in the clean rooms of the semiconductor industry.

TorrLube® TLC is the ideal lubricant for high vacuum and high temperature applications in the semiconductor and aerospace industries.

TorrLube used the most advanced fluorine synthesizing technology to create PFPE oils with lower vapor pressure while increasing their lubricity over a broad temperature range.

Our proprietary distillation and filtration process isolates molecules with better overall characteristics than other vacuum lubricants.

Competitors's oils have jumbles of various molecular lengths--which results in variable vapor pressures.

TorrLube PFPE oil is already cooked. There's nothing to be outgassed. Our vapor pressures are two orders of magnitude ahead of the competition.

TorrLube Oil TLC 10 - Size Options

TLC 10 - Size Options:

- 1cc Syringe (P/n 11711)
- 3cc Syringe (P/n 22722)
- 60cc Bottle (P/n 14514A)
- 2 x 60cc Bottle Set (P/n 14514)
- 240cc in 1lb Glass Bottle (P/n 1000)

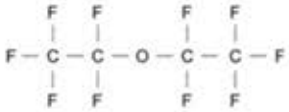
How we learned to make the best ultra high vacuum lubricant.

We got our start as a lab inside Sputtered Films (now acquired by OEM Group, Inc) trouble-shooting the lubricants in robotic wafer-handling systems.

Our in-house group coped with the demands of Silicon Valley chip fabs for lubricants that would not contaminate their processes.

Through trial and error and experiment, we identified and isolated the optimum molecules for low vapor pressure.

Perfluorpolyether is chains of fluorocarbons linked by oxygen atoms. The fluorines are tightly bound to the carbons and are outward-facing, and so they present an inert face to their environment.



The molecular chains can be short, long, and/or branched. The TorrLube distillation and sub-micron filtering process separates out a narrow band of high performance molecules.