

Vacuum Lubrication - TorrLube®



TorrLube® is the specifically formulated lubricant for reducing friction to substantially **increase the life of moving components** in high vacuum applications. When applied sparingly to O-Rings and feedthroughs, **TorrLube's** excellent lubricating qualities dramatically **extend the integrity of vacuum to atmosphere seals**, thereby improving vacuum system performance over a long period.

Under high loading pressures, such as those in robots, bearings, and shafts, **TorrLube's** viscosity remains higher than other lubricants, affecting **superior performance over a wide range of pressures and temperatures**.

TorrLube shows remarkable chemical inertness. This is important because lubricants for vacuum systems used in the semiconductor industry can be exposed to a variety of chemicals. **TorrLube does not interact to contaminate semiconductor devices** being processed in the system with free radicals such as NA++

- Condition O-rings and Quad-rings to extend vacuum seal integrity.
- Apply to ball bearings and slide rods to decrease wear and extend life.
- Apply to gear cogs to ensure long lasting smooth action.
- Inject into robot shaft and joints to reduce vibrations and wear.
- Lubricate screws to ease insertion and removal and to prevent cold welding (galling).

Properties	Units / Conditions	Typical Values
Viscosity (base oil)	cSt at 40°C (104°F)	500
Vapor Pressure	torr	1 x 10 ⁻⁹
Density	g/mL at 23°C (74°F)	1.9
Volatility Loss(22 hours @ 260°C)	%	< 2
Appearance	---	Clear Liquid

Part Number	Description	Size	Unit Price
VTORR11711	TorrLube	1 cc Syringe	\$154
VTORR14514	TorrLube	Twin Pack of 60 cc Bottles	\$1,985