

# SPI Supplies® Vacuum Greases



The highest quality in high vacuum greases...  
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## SPI Supplies brings you the highest quality in high vacuum greases available today for electron microscopy.

### Apiezon®

The Apiezon family of high vacuum greases are known the world over for their high quality, consistency and excellent compatibility for high vacuum applications. The Apiezon hydrocarbon greases are silicone and halogen free so there is never a risk of Si contaminating the microscope column. Most are made of pure hydrocarbon materials.

In electron microscopy the Apiezon M grease is the most widely used. Those wanting the cleanest vacuum systems possible should select the more premium type product Apiezon L for the lowest vapor pressure.

### Braycote® Greases

The Braycote line of high vacuum greases has been developed to cover a wide range of temperature and chemical environments. The Braycote greases are perhaps best known for their high chemical inertness which derives from their completely fluorinated chemistry, both in terms of the base oil and the solids phase, which is a micro-colloid of tiny polytetrafluoroethylene (PTFE) dispersion particles.

The Braycote line of greases covers a very wide range of applications and consequently, a large number of different products, often times varying only slightly, but having large differences in certain applications.

### Fomblin® Greases

Chemically inert lubricating greases are required when handling corrosive or oxidizing substances. Fomblin fluorinated fluids are excellent base oils for high temperature, high performance greases. Fomblin greases are derived by thickening Fomblin fluids with polytetrafluoroethylene (PTFE) telomers, silicates, or other additives. Many of the greases have USDA H1 listing.

Fomblin greases are homogeneous, white (except for YNX), thick and particularly resistant to oxidation and to chemical agents. Further, they are compatible with all types of material (glass, metals, elastomers, plastics, ceramics) and their properties remain unaltered over wide temperature ranges. Fomblin greases can also be used in the presence of water, oils, vapor and, in general, with all organic substances and solvents which are not highly fluorinated, without being removed, dissolved or modified in any way.

### Dow Corning® Greases

Dow Corning High Vacuum Grease is a stiff, nonmelting silicone lubricating material with a much higher stability at the higher end of the temperature range (-40° C to 200° C), than hydrocarbon greases such as Apiezon® M. This grease is very popular as a general laboratory lubricant, in large part due to its low cost relative to the alternatives. The product is very popular as a stop cock grease as well as for use as an anti-seize grease in ground glass joints.

Dow Corning High Vacuum Grease is recommended for vacuums reaching between  $1 \times 10^{-5}$  and  $1 \times 10^{-6}$  torr.

### Santovac®

Santovac 5GB is a non-melting, ultra-high vacuum grease with exceptional resistance to high temperatures, oxidation, radiation, chemical attack and moisture. The base fluid is Santovac 5 Polyphenyl Ether, which has been used successfully for many years in numerous vacuum applications. This unique grease is intended for applications where exposure to these conditions is likely, especially where silicones and halogens are to be avoided. The resistance to radiation breakdown puts Santovac 5GB grease in a class of its own.

### TorrLube®

TorrLube® ExtremeGrease is a white, odorless, nonflammable, and chemically inert product based on TorrLube Oil and the most advanced PTFE thickener available. It does not contain Sodium or Iron.

TorrLube® ExtremeGrease remains stable and will not break down under mechanical stress and lose its ability to hold TorrLube® Oil. TorrLube® ExtremeGrease helps prevent sticking, jumping, and mechanical noise, ensuring smooth, controlled movement.

### Silver Filled Conductive Grease

The Silver Conductive Grease dispenser permits the application of precise amounts of the product to provide superior electrical and thermal conductivity, lubrication and protection. It features:

- Conductive lubricant containing pure silver
- Effectively lubricates metal, rubber and plastic
- Provides maximum electrical and thermal conductivity
- Protects against moisture and corrosion



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