

# Supplies

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## Greases and Lubricants

### Torr Seal® Low Vapor Pressure Resin Sealant

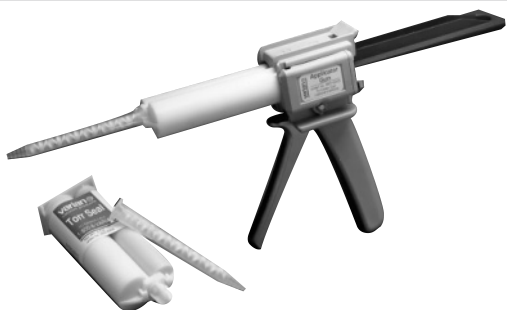


Torr Seal epoxy resin quickly seals leaks on any type of vacuum system or component. Provided in convenient tubes, Torr Seal is solvent-free and can be used at pressures of  $10^{-9}$  torr (mbar) and below, at temperatures from  $-45^{\circ}\text{C}$  to  $120^{\circ}\text{C}$  (bakeable temperature). Additionally, Torr Seal permits leak checking immediately after curing and bonds with many materials including metal, ceramic, and glass.

#### Ordering Information

Description	Part Number	Weight lbs. (kg)
Torr Seal base resin, 90 grams, and Torr Seal hardener, 45 grams	9530001	1 (0.45)

### Torr Seal® Mixing System



The Torr Seal Mixing System includes an applicator gun, a premeasured Torr Seal cartridge, and an epoxy/resin mixer. The system uses the same low vapor pressure resin sealant as standard Torr Seal, while providing a systematic and scientific way of mixing the Torr Seal epoxy and resin. The applicator gun dispenses premeasured epoxy and resin from the cartridge through the mixer so that a uniform Torr Seal bead can be placed on any surface. As with the standard Torr Seal tubes, the mixing system can be used at pressures of  $10^{-9}$  torr and below, and at temperatures from  $-45^{\circ}\text{C}$  to  $120^{\circ}\text{C}$  (bakeable temperature).

#### Ordering Information

Description	Part Number	Weight lbs. (kg)
Applicator gun with Torr Seal cartridge (2 oz.) and three mixers	9530002	2.00 (0.91)
Applicator gun only	9530003	1.50 (0.68)
Torr Seal cartridge (2 oz.) and three mixers	9530004	0.75 (0.34)
Mixers only (six to a package)	9530005	0.25 (0.11)

VacuumXpress

### Fel-Pro™ Heavy Duty Anti-Seize

Fel-Pro Heavy Duty Anti-Seize is a high-temperature, anti-galling lubricant designed for screw threads and other mated components of all types. Generally used in applications that are external to vacuum systems, Fel-Pro is useful in temperature ranges of  $70^{\circ}\text{C}$  to  $+1315^{\circ}\text{C}$ .

#### Ordering Information

Description	Part Number	Weight lbs. (kg)
Fel-Pro Heavy Duty Anti-Seize Lubricant	9530031	0.3 (0.13)

### Apiezon Vacuum Grease, Type L

Apiezon L is a general vacuum grease that has a vapor pressure from  $10^{-11}$  torr (mbar) at  $20^{\circ}\text{C}$  to  $10^{-3}$  torr (mbar) at  $300^{\circ}\text{C}$ , and has a melting point of  $< 50^{\circ}\text{C}$ .

#### Ordering Information

Description	Part Number	Weight lbs. (kg)
Apiezon L vacuum grease, 1 oz.	695400004	1.0 (0.45)

### Dow Corning High Vacuum Silicone Grease

This high vacuum grease is a stiff, non-melting, non-oxidizing silicone lubricating material that maintains its consistency from  $-40^{\circ}\text{C}$  to  $+260^{\circ}\text{C}$ .

#### Ordering Information

Description	Part Number	Weight lbs. (kg)
High vacuum silicon grease, 5.3 oz.	695400008	1.0 (0.45)

### Varian Vacuum Grease

This is a general purpose grease with a vapor pressure in the  $10^{-6}$  torr range. It is a non-silicone grease that comes in two viscosities and two sizes.

#### Ordering Information

Description	Part Number	Weight lbs. (kg)
Varian Vacuum grease, Medium Weight, $\frac{1}{4}$ lb size	LGCMID025	1.0 (0.45)
Varian Vacuum grease, Medium Weight, 1 lb size	LGCMID100	1.0 (0.45)
Varian Vacuum grease, Heavy Weight, $\frac{1}{4}$ lb size	LGCHEV025	1.0 (0.45)
Varian Vacuum grease, Heavy Weight, 1 lb size	LGCHEV100	1.0 (0.45)

Varian, Inc. Vacuum Technologies

# Diffusion and Mechanical Pump Fluids

*Exact diffusion pump fluid charges are now available!*

Varian offers a wide range of diffusion pump fluid types and container sizes. We have just the right fluid type and container size to meet the requirements of your particular application. Varian now offers exact pump charges for many of our diffusion pumps, including the VHS-6, VHS-10, HS-16,

HS-20, HS-32, and NHS-35. Exact pump charges enables you to purchase just enough fluid to fill your diffusion pump, thus eliminating costly waste. This eliminates problems associated with the disposal of diffusion pump fluid, and eliminates the guess work associated with filling the pump.

## Ordering Information

Description	Diffusion Pump Exact Charge	Part Number	Shipping Weight lbs. (kg)
<b>NEOVAC SY*</b>			
1 liter/1,000 cc	VHS-10, VHS-400	K6948301	3.0 (1.4)
1 U.S. gallon (3.8 liters)		K6948305	10.6 (4.8)
5 U.S. gallons (18.9 liters)		K6948315	53.0 (23.9)
<b>Dow Corning DC-702*</b>			
500 cc	VHS-6, VHS-250	695472005	3.0 (1.4)
1 U.S. gallon (3.8 liters)		695472008	12.0 (5.4)
5 U.S. gallons (18.9 liters)		695472015	51.0 (23.0)
<b>Dow Corning DC-704*</b>			
500 cc	VHS-6, VHS-250	695474005	3.0 (1.4)
1 U.S. gallon (3.8 liters)		695474008	12.0 (5.4)
6.2 U.S. gallons (23.5 liters)		695474015	51.0 (23.0)
<b>Dow Corning DC-705*</b>			
500 cc	VHS-6, VHS-250	695475005	3.0 (1.4)
1 U.S. gallon (3.8 liters)		695475008	12.0 (5.4)
<b>Santovac 5</b>			
40 cc		695405001	1.0 (0.5)
65 cc		695405002	2.0 (0.9)
500 cc	VHS-6, VHS-250	695405005	2.5 (1.1)

\*For technical information, refer to the Diffusion Pump Section page 30.

## Varian Oil, GP Type Mechanical Pump Fluid

Varian GP Type Fluid is a mechanical pump fluid recommended for use in non-corrosive applications. As a result of molecular distillation, it has low vapor pressure and, therefore, backstreams less than undistilled refinery products.

## Ordering Information

Description	Part Number	Shipping Weight lbs. (kg)
1 liter bottle	K7516301	3.5 (1.6)
1 gallon bottle	K7516302	14.0 (6.4)