Leak Detectors, Lubricants, and Sealants

Products

- Snoop® liquid leak detectors
- Goop™ thread lubricants
- SWAK™, PTFE Tape, and PTFE-Free pipe thread sealants

Swagelok

Liquid Leak Detectors

Snoop and Real Cool Snoop liquid leak detectors detect gas leaks in hard-to-reach areas.

Features

- Sustained bubble action works even on very small leaks and vertical surfaces.
- Flexible snooper tube extends for hard-to-reach areas.
- Noncorrosive, nonflammable formula does not contain chlorine.
- Contains corrosion inhibitor for added protection.
- Formula dries clean, without staining.

Snoop Liquid Leak Detector

- Nontoxic formula

Technical Information

- **Composition:** Deionized water and a surfactant.
- **Temperature rating:** Can be used over a temperature range of 27 to 200°F (–2 to 93°C).

- **Specifications:** Meets the performance requirements of:
  - MIL-PRF-25567 *Leak Detector Compound, Oxygen Systems, Type I, 1 to 70°C* (33 to 158°F).
  - NFPA 52 Section 6-12.2 *Leak Testing Compressed Natural Gas Vehicular Fuel System.*
  - EPA Part 60, Appendix A, Method 21, Section 4.3.3 *Alternative Screening Procedures Using Soap Solutions.*
  - ASTM G186-05, Standard Test Method for Determining Whether Gas-Leak-Detector Fluid Solutions Can Cause Stress Corrosion Cracking of Brass Alloys.

Real Cool Snoop Liquid Leak Detector

- Works at temperatures as low as –65°F (–54°C), even on very small leaks and vertical surfaces.

Technical Information

- **Composition:** Deionized water, a surfactant, and ethylene glycol to prevent freezing at low temperatures.
- **Temperature rating:** Can be used over a temperature range of –65 to 200°F (–54 to 93°C).

- **Specifications:** Meets the performance requirements of:
  - MIL-PRF-25567 *Leak Detector Compound, Oxygen Systems, Type II, –54 to 1°C* (–65 to 33°F).
  - NFPA 52 Section 6-12.2 *Leak Testing Compressed Natural Gas Vehicular Fuel System.*
  - EPA Part 60, Appendix A, Method 21, Section 4.3.3 *Alternative Screening Procedures Using Soap Solutions.*
  - ASTM G186-05, Standard Test Method for Determining Whether Gas-Leak-Detector Fluid Solutions Can Cause Stress Corrosion Cracking of Brass Alloys.

Ordering Information

Container Size	Ordering Number	Snooper Tube Length
Snoop Liquid Leak Detector		
2 fl oz (59 mL)	MS-SNOOP-2OZ	6 in. (15 cm)
8 fl oz (236 mL)	MS-SNOOP-8OZ	12 in. (30 cm)
1 gal (3.8 L)	MS-SNOOP-GAL	—
Real Cool Snoop Liquid Leak Detector		
8 fl oz (236 mL)	MS-RC-SNOOP-8OZ	12 in. (30 cm)
1 gal (3.8 L)	MS-RC-SNOOP-GAL	—

⚠ **Warning: Use Snoop and Real Cool Snoop liquid leak detectors only on external surfaces.**

Material Safety Data Sheets are available from your authorized Swagelok representative or at swagelok.com.

Pipe Thread Sealants

Swagelok pipe thread sealants are compatible with a wide range of chemicals, enabling leak-tight sealing in a variety of applications.

SWAK Anaerobic Pipe Thread Sealant

Features

- Cures to a bond that resists vibration or shock
- Lubricates threads, preventing costly thread damage due to galling and seizing during assembly
- Allows low breakaway torque for easy-to-break connections, even after fully cured
- Is compatible with a wide range of chemicals
- Applies quickly and easily
- Clings to threads and will not shred or tear on assembly

Technical Information

- **Composition:** Resin (containing methacrylic ester) and PTFE particles
- **Cure time:** At room temperature, allow 24 h minimum before pressurizing①.
- **Pressure rating:** To pipe or fitting working pressure up to 10 000 psig (689 bar), based on proper thread engagement
- **Temperature rating:** –65 to 350°F (–53 to 176°C)
- **Viscosity:** Greater than 100 000 cP, in accordance with ASTM D1824
- **Storage temperature:** 45 to 85°F (7 to 29°C)
- **Shelf life:** Five years at recommended storage temperature

① Cure time and sealing are dependent on many variables, such as storage conditions, cleanliness of threads, quality of threads, temperature, materials of construction, proper assembly, specific gravity of system media, and system operating pressures.

Ordering Information

Tube Size	Ordering Number
0.2 fl oz (6 cm^3)	MS-PTS-6
1.69 fl oz (50 cm^3)	MS-PTS-50
8.45 fl oz (250 cm^3)	MS-PTS-250

Some fluids and materials are NOT compatible with SWAK. While not intended to be a complete list, they include the following:

- Plastic pipe or valve components other than PTFE
- Halogens
- Freon
- Pure oxygen
- Ozone
- Hydrazine
- Nitrogen dioxide
- High concentrations of strong acids or bases
- Food, cosmetic, drug, or water systems for human consumption
- Vacuum systems where any hydrocarbon outgassing will affect performance

PTFE Tape Pipe Thread Sealant

Features

- Material conforms to Commercial Item Description A-A-58092
- Temperatures up to 450°F (232°C)

Applications

- Plastics
- Aluminum
- Stainless steel
- Ceramic
- Synthetic rubber
- Carbon steel and special alloys
- Chemicals
- Corrosives
- Hydraulic fluids
- Refrigerants
- Aromatic fuels

⚠ **Caution: Tape should be used only on male tapered pipe threads. Do not use on flared, coned, or tube fitting ends.**

Ordering Information

Male Tapered Pipe Size	Tape Size	Ordering Number
1/8, 1/4, and 3/8 in.	1/4 by 576 in. (6.4 mm by 1463 cm)	MS-STR-4
1/2 in. and up	1/2 by 288 in. (12.7 mm by 732 cm)	MS-STR-8

Material Safety Data Sheets are available from your authorized Swagelok representative or at swagelok.com.

Pipe Thread Sealants

PTFE-Free Pipe Thread Sealant

Features

- Seals immediately
- Lubricates threads, preventing costly thread damage from galling and seizing during assembly
- Allows low breakaway torque for easy-to-break connections
- Is compatible with a wide range of chemicals
- Clings to threads and will not shred or tear on assembly

⚠ **Use with metal pipe threads only.**

Ordering Information

Tube Size	Ordering Number
1.69 fl oz (50 cm^3)	MS-TFS-50

Technical Information

- **Composition:** Particles of polyolefin resin and filler in a polymeric plasticizer. Material has lubricating qualities.
- **Pressure rating:** Effective with pipe or fitting working pressure up to 10 000 psig (689 bar) at room temperature
- **Temperature rating:** –65 to 300°F (–53 to 148°C)
- **Flash point:** 355°F (179°C)
- **Storage:** Shelf life is up to 5 years when stored at 45 to 85°F (8 to 29°C).

Sealing Considerations

Proper sealing depends on many variables—quality and cleanliness of threads, temperature, component material, installation torque, specific gravity of system media, and system operating pressures.

⚠ **Warning: Do not use Swagelok PTFE-free pipe thread sealant in systems containing a strong oxidizer. A chemical reaction, including spontaneous combustion, can occur.**

Material Safety Data Sheets are available from your authorized Swagelok representative or at swagelok.com.

Thread Lubricants

Swagelok thread lubricants ease assembly of leak-tight connections for a variety of metals and alloys.

Silver Goop

Oil-based thread lubricant for use on stainless steel and high-temperature alloys

Features

- Prevents galling
- Performs in temperatures up to 1500°F (815°C)
- Contains a nonmelting antiseize agent
- Lowers torque on threaded parts
- Stays in place between mating surfaces regardless of force applied
- Resists moisture

Ordering Information

Container Size	Ordering Number
1 fl oz (29.5 cm^3) tube	MS-TL-SGT
1 lb (450 g) can	MS-TL-SGC

Pure Goop

Halocarbon-based thread lubricant for use on titanium, stainless steel, steel, and nickel-based alloys

Features

- Resists galling
- Is chemically nonreactive with a wide range of materials
- Performs in temperatures up to 350°F (176°C)
- Is noncorrosive to metals
- Resists moisture

⚠ **Warning: Do not use on aluminum or magnesium threads.**

Ordering Information

Container Size	Ordering Number
1 fl oz (29.5 cm^3) tube	MS-TL-PGT
1 lb (450 g) can	MS-TL-PGC

Blue Goop

Oil-based thread lubricant for use on stainless steel, steel, titanium, aluminum, and nickel-based alloys

Features

- Resists galling
- Performs in temperatures up to 400°F (204°C)
- Resists water washout
- Is a deep blue color that is not affected by water
- Contains PTFE

Ordering Information

Container Size	Ordering Number
2 fl oz (59 cm^3) tube	MS-TL-BGT
1 lb (450 g) can	MS-TL-BGC
50 lb (22.7 kg) bucket	MS-TL-BGG

Vac Goop

Fluorosilicone-based thread lubricant for use on threads, O-rings, gaskets, glass seals, and metal parts in vacuum systems

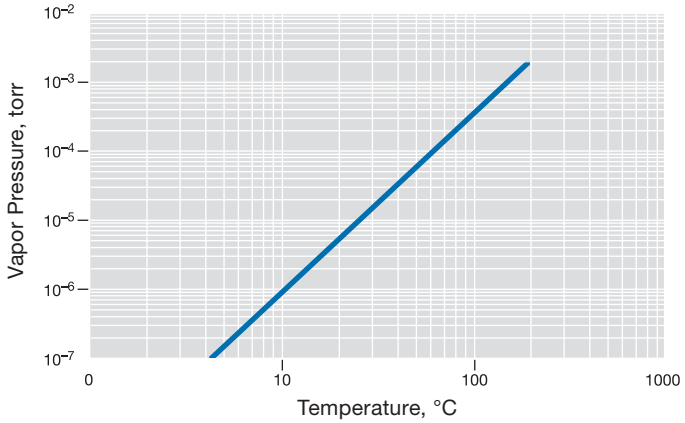
Features

- Resists galling
- Has extremely low vapor pressure
- Minimizes outgassing problems
- Is chemically nonreactive with a wide range of materials
- Performs in temperatures up to 300°F (148°C)
- Resists moisture

Ordering Information

Container Size	Ordering Number
1 fl oz (29.5 cm^3) tube	MS-TL-VGT
1 lb (450 g) can	MS-TL-VGC

Temperature Versus Vapor Pressure



⚠ **Request and read the Material Safety Data Sheets before using these products.**

Material Safety Data Sheets are available from your authorized Swagelok representative or at swagelok.com.

Safe Product Selection
When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

Warranty Information

Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit swagelok.com or contact your authorized Swagelok representative.

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