ANTI-SEIZE TECHNOLOGY

Anti-Seize Compounds • Sealants/Gasketing/Adhesives
Anaerobic Threadlockers • Lubricants/Penetrants • Protectants/Coatings
Greases • Cleaners/Degreasers • Application Equipment

Transportation • Marine • OEMs
Food Processing • Earth Moving Equipment • Petro/Chemical
Refineries • Agriculture • Food Machinery Maintenance
Steel Mills • Offshore Drilling • Chemical

Petroleum Refineries • Steel Mills • Paper Mills • Marine, Transportation
Earth Moving Equipment • Agriculture • Mining • Food • Processing
Fire Protection • Plumbing • Heavy and Light Duty Construction
OEMs • MROs
Limited Warranty

ANTI-SEIZE TECHNOLOGY produces industrial-strength products for sealing, locking, lubricating, and cleaning purposes. We use advanced processes in production and maintain high standards of product quality and performance. For a period of one year from the date of purchase, ANTI-SEIZE TECHNOLOGY will, upon return of the unused portion of the product for inspection, replace or grant full credit of purchase price for any product it sells which fails to meet the physical property specifications which correspond to that product.

Also, we make every reasonable effort to ensure the accuracy of the information contained in our literature and on our labels. However, this data is provided only as a general guide as numerous variables, over which we have no control, can affect a product’s performance and suitability to a particular application. ANTI-SEIZE TECHNOLOGY can therefore neither guarantee nor assume responsibility for the results obtained by others. It is necessary for the User of our products to test each proposed application prior to incorporating the product into regular use and we recommend and assume that the User will conduct such testing.

This limited warranty constitutes the sole warranty extended by ANTI-SEIZE TECHNOLOGY and specifically disclaims any and all other express or implied guarantees or warranties, either oral or written, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. ANTI-SEIZE TECHNOLOGY shall not be liable for any consequential or incidental damages of any kind resulting from use of any of its products.
**COP-GRAF™**

**Copper and Graphite Based Anti-Seize Compound**

Cop-Graf™ is a top-quality anti-seize compound composed of pure copper and graphite in a high heat-resistant carrier. It is designed to lubricate and protect threaded connections and flanges at temperatures to 1,800°F (982°C) and extreme load pressure conditions. Cop-Graf™ has water-resistant and anti-oxidant properties, does not separate, and is formulated to withstand lengthy service and severe conditions. Stress, strain, and time to disassemble are greatly diminished. Meets the performance requirements of MIL-PRF-907F.

**Available In:**
- 2gm pill pk
- 5gm pill pk
- 2oz bt
- 3oz tube
- 5oz bt
- 8oz tube
- 8oz bt
- 12.5oz aerosol
- 15oz cart
- 1# can
- 1# bt
- 2½# can
- 8# pail
- 42# pail

Available in 130# and 425# drums. Call for details.

**Features and Benefits of Cop-Graf and Anti-Seize Special:**
- Protect against rust and corrosion
- Reduce friction
- Speed assembly and disassembly
- Retard galvanic action between dissimilar metals
- Compatible with all types of metals and most plastics
- Resist seizing, galling, and cold welding
- Non-hardening and non-dripping
- Resists salt water corrosion

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**ANTI-SEIZE SPECIAL™**

**Aluminum, Copper and Graphite Based Anti-Seize Compound**

Anti-Seize Special™ is a superior-grade assembly compound and high-pressure lubricant. This aluminum, copper, and graphite based anti-seize formula has unique particle shapes suspended in a lasting protective film, resisting washout and burn-off. Meets the performance requirements of MIL-PRF-907F.

**Available In:**
- 2oz bt
- 3oz tube
- 5oz bt
- 8oz tube
- 8oz bt
- 12.5oz aerosol
- 15oz cart
- 1# can
- 1# bt
- 2½# can
- 8# pail
- 42# pail

Available in 130# and 425# drums. Call for details.

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**NICKEL-GRAF™**

**Nickel and Graphite Based Anti-Seize Compound**

Nickel-Graf™ is a premium anti-seize lubricant designed to perform in extreme service conditions including extreme temperature and corrosion environments. Withstands temperatures of 2,600°F (1,426°C). Nickel-Graf™ is composed of pure colloidal nickel and graphite flakes dispersed in a superior petroleum carrier. Nickel-Graf™ does not contain any copper, lead, or molybdenum disulfide, and will not poison catalyst beds, reaction chambers, or special alloy fittings. Can be used with anhydrous ammonia, acetylene, and other vinyl monomers. Meets the performance requirements of MIL-PRF-907F.

**Features and Benefits:**
- Delivers maximum protection from acids, caustics, chemicals, and extreme heat
- Eliminates galling and cold welding
- Reduces friction, lowers torque
- Provides nickel plating as a barrier between metal surfaces
- Protects against corrosion and oxidation
- Speeds assembly and disassembly

**Available In:**
- 2oz bt
- 3oz tube
- 5oz bt
- 8oz tube
- 8oz bt
- 12.5oz aerosol
- 15oz cart
- 1# can
- 1# bt
- 2½# can
- 8# pail
- 42# pail

Available in 130# and 425# drums. Call for details.

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**MOLY-LIT™**

**Moly Based Anti-Seize Compound**

Moly-Lit™ is an extra heavy-duty, extreme-pressure, low-friction lubricant. It offers high concentrations of molybdenum disulfide, graphite, and other anti-wear solids in a high-performance carrier. Use it to protect valuable parts and equipment to temperatures to 2,400°F (1,315°C).

Moly-Lit™ anti-seize compound delivers minimum torque requirements and lubricates under extreme heavy loads. Recommended for threads, pipes, valves, and equipment carrying ethylene, acetylene, and other services where copper contamination must be avoided. Meets the performance requirements of MIL-PRF-907F.

**Features and Benefits:**
- No copper or aluminum
- Long-term protection against rust and corrosion
- Reduces friction on all metal surfaces
- Protects load bearing surfaces during critical wear-in

**Available In:**
- 2oz bt
- 3oz tube
- 8oz tube
- 10oz bt
- 18oz cart
- 20oz can
- 20oz bt
- 2½# can
- 8# pail
- 42# pail

Available in 130# and 500# drums. Call for details.
**MARINE GRADE™ NON-METALLIC**

**Anti-Seize & Anti-Corrosion Compound**

Marine Grade™ Non-Metallic Anti-Seize Compound is a superior Anti-Seize and Anti-Corrosion compound specifically engineered for assembly applications that require extraordinary performance in harsh Marine environments. Contains our proprietary hybrid grease along with high non-metallic solid content that will act as an electrical insulator between dissimilar metals inhibiting galvanic corrosion. Meets the Performance Requirements of MIL-PRF-907F. **Temperature Range:** -65°F to 2,400°F (-53°C to 1,315°C).

**Features and Benefits:**
- INHIBITS GALVANIC CORROSION between dissimilar metals
- Proprietary grease, special corrosion inhibitors provide extraordinary protection in wet and humid conditions
- High resistance to seizing, galling, and cold welding
- Reduces friction; speeds assembly and disassembly
- Outstanding resistance to salt & fresh water wash off
- Provides lubrication in extreme pressure conditions
- American Bureau of Shipping Approved

<table>
<thead>
<tr>
<th>Available In:</th>
<th>2oz bt</th>
<th>6oz bt</th>
<th>8oz tube</th>
<th>1# bt</th>
<th>2.5# can</th>
<th>10# can</th>
<th>50# pail</th>
</tr>
</thead>
<tbody>
<tr>
<td>P/N:</td>
<td>44002</td>
<td>44006</td>
<td>44008</td>
<td>44018</td>
<td>44025</td>
<td>44035</td>
<td>44050</td>
</tr>
</tbody>
</table>

Available in 130# and 425# drums. Call for details.

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**METAL-FREE 2000™ Anti-Seize and Lubricating Compound - ENVIRONMENTALLY SAFE**

Metal-Free 2000™ is a non-metallic, heavy-duty, anti-seize lubricating compound. It offers extreme-pressure additives, water-resistant properties, and rust and corrosion inhibitors in a high-performance carrier. Protects to 2,400°F (1,315°C). Used in all industries where corrosion, extreme heat, and pressure are major factors. Meets the performance requirements of MIL-PRF-907F.

**Features and Benefits:**
- Environmentally safe, lead free
- Withstands extreme pressure conditions
- No hazardous ingredient per OSHA 29, CFR 1910.1200
- Lowers friction and reduces torque
- Compatible with stainless steel and nickel alloys

<table>
<thead>
<tr>
<th>Available In:</th>
<th>2oz bt</th>
<th>5oz bt</th>
<th>8oz tube</th>
<th>8oz bt</th>
<th>15oz cart</th>
<th>1# bt</th>
<th>2# can</th>
<th>8# can</th>
<th>42# pail</th>
</tr>
</thead>
<tbody>
<tr>
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<td>20010</td>
<td>20015</td>
<td>20018</td>
<td>20025</td>
<td>20030</td>
<td>20050</td>
</tr>
</tbody>
</table>

Available in 130# and 425# drums. Call for details.

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**ZINC ANTI-SEIZE™ (Aircraft Grade)**

Zinc Dust and Petrolatum Compound

Zinc Anti-Seize™ is a smooth mixture of zinc dust and petrolatum compound to prevent seizing and corrosion within metal joint assemblies. Recommended for aluminum and aluminum alloys. Protects against corrosion through the electrochemical "GALVANIZING" properties of the zinc dust on both aluminum and ferrous metal (iron) components.

**Features and Benefits:**
- Conforms to MIL-T-22361, C.I.D. A-A-59313
- Corrosion protection up to 750°F (399°C)
- Resists seizing in aluminum, aluminum alloys, and iron assemblies

<table>
<thead>
<tr>
<th>Available In:</th>
<th>2oz bt</th>
<th>8oz tube</th>
<th>8oz bt</th>
<th>1# can</th>
<th>1# bt</th>
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<td>P/N:</td>
<td>45002</td>
<td>45008T</td>
<td>45008</td>
<td>45016</td>
<td>45018</td>
</tr>
</tbody>
</table>

Available in 130# and 425# drums. Call for details.

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**MOLY-AP™ Metal Assembly Paste**

MOLY-AP™ is an extreme-pressure lubricant for metal assembly and maintenance. Reduces wear on parts during breaking-in and new-parts assembly.

**Features and Benefits:** Low coefficient of friction

**Temperature Range:** Solids are effective from 0° to 750°F (-18° to 399°C); base oil vehicle 0° to 250°F (-18° to 121°C).

**Applications:** Lubricating threaded connections, gears, chains, conveyor tracks, lubricating during metal forming, general parts assembly, press-fitting, cold extrusion, breaking-in of bearings, movable screws, splines, cams, and more.

<table>
<thead>
<tr>
<th>Available In:</th>
<th>3oz tube</th>
<th>16oz can</th>
<th>10# can</th>
<th>50# pail</th>
</tr>
</thead>
<tbody>
<tr>
<td>P/N:</td>
<td>43003</td>
<td>43016</td>
<td>43030</td>
<td>43050</td>
</tr>
</tbody>
</table>
Anti-Seize Compounds

ALUMINUM PLATE™ Anti-Seize Compound

Aluminum Plate™ contains no lead or copper and has a synthetic, non-melting carrier. This lubricant depolymerizes and dissipates at temperatures above 400°F without leaving a carbon residue. It deposits a dry film of aluminum and graphite to plate and protect metal surfaces to temperatures of 2,000°F (1,095°C).

Features and Benefits:
• Withstands extreme weather conditions
• Does not form abrasive residue at high temps
• Highly water resistant
• Resists seizing and galling, reduces friction
• Protects against rust and corrosion

Available In:
- 2oz bt
- 6oz pres*
- 8oz tube
- 8oz bt
- 15oz cart
- 1# bt
- 2# can
- 8# can
- 42# pail

P/N:
- 32002
- 32006
- 32008
- 32010
- 32015
- 32018
- 32025
- 32030
- 32050

*Copper Plate™ Anti-Seize Compound

Copper Plate™ contains no lead, graphite, or aluminum and has a synthetic, non-melting carrier. The formula includes high concentration of pure copper flakes aided by special carriers and inhibitors. This combination will protect, lubricate, and fight corrosion while enhancing electrical conductivity.

Features and Benefits:
• Withstands extreme weather conditions
• “Copper plates” mating surfaces
• Enhances and protects most electrical connections
• Withstands temperatures to 1,800°F (982°C)
• Recommended for stainless steel applications above 550°F (288°C)
• Resists seizing and galling
• Highly water resistant

Available In:
- 2oz bt
- 6oz pres*
- 8oz tube
- 8oz bt
- 15oz cart
- 1# bt
- 2# can
- 8# can
- 42# pail

P/N:
- 21002
- 21006
- 21008
- 21010
- 21015
- 21018
- 21025
- 21030
- 21050

*Nickel Plate™ High Temp Anti-Seize Compound

Nickel Plate™ is a premium anti-seize lubricant for maximum resistance to the most corrosive and extreme temperature environments. It has a non-melting synthetic carrier that dissipates without leaving a carbon residue. It deposits a dry film of nickel and graphite to plate and protect surfaces to temperatures of 2,600°F (1,426°C).

Features and Benefits:
• Withstands extreme weather conditions
• Does not form carbon residue at high temps
• Highly water resistant
• Resists seizing and galling
• Excellent for use on dissimilar metals such as steel to aluminum, steel to magnesium, stainless steel to stainless steel, steel to brass, etc.
• Protects against rust and corrosion
• Resists galvanic pitting on all kinds of machinery and metal fittings

Applications: Any metal connection where an anti-seize is desired; Moving parts in high temperatures, bolts, fittings, flanges, gaskets, keyways, valves, etc.

Available In:
- 2oz bt
- 5oz bt
- 6oz pres*
- 8oz tube
- 8oz bt
- 15oz cart
- 1# bt
- 2# can
- 8# can
- 42# pail

P/N:
- 35002
- 35005
- 35006
- 35008
- 35010
- 35015
- 35018
- 35025
- 35030
- 35050

*Moly Plate™ Anti-Seize Compound

Moly Plate™ is a metal-free compound composed of molybdenum disulfide and graphite with a synthetic non-melting carrier. “Moly” with its very low coefficient of friction makes this product an excellent choice for high loads and parts in extreme pressure and temperature conditions up to 2,400°F (1,315°C).

Features and Benefits:
• Withstands extreme weather conditions
• Does not form a carbon abrasive after high-temp exposure
• Highly water resistant
• Protects against rust and corrosion
• Resists seizing and galling

Applications: Metal connections where reactive metals such as copper and aluminum must be avoided, rough-cut threads made of iron, steel, and most alloy, stainless steel, aluminum, and alloys that tend to gall easily.

Available In:
- 2oz bt
- 8oz tube
- 10oz bt
- 15oz cart
- 1# bt
- 2# can
- 8# can
- 42# pail

P/N:
- 37002
- 37008
- 37010
- 37015
- 37018
- 37025
- 37030
- 37050

*Pressurized Cans Require GHS Labeling
**PURE WHITE™ (Food Grade)**

Anti-Seize Compound w/PTFE

Pure White™ is a premium food-grade lubricant fortified with PTFE. It is odorless with exceptional water resistance and lubricating properties. Specially designed for the strict conditions found in the Food/Beverage and Drug/Cosmetic industries. Pure White™ has anti-rust and anti-corrosion properties vital to protect equipment from harmful attack of corrosive acids found in food substances.

**Features and Benefits:**
- Pure, tasteless, non-toxic, non-staining
- NSF H-1
- FDA Compliant 21 CFR 178.3570
- PTFE insures maximum lubrication
- Superior anti-wear properties
- Operating temperatures to 475°F (246°C)
- Excellent resistance to wash out

**Applications:** All metal-to-metal surfaces to prevent seizing, galling, rust, corrosion and wear. Use on conveyors, gears, dicers, rollers, slicers, sprockets, rails, chains, nuts, bolts, screws, valves. Used by meat and poultry processors, canneries, bottlers, candy mfrs., dairies, breweries, and many other food processing facilities.

Available In:

<table>
<thead>
<tr>
<th>P/N</th>
<th>3oz tube</th>
<th>8oz tube</th>
<th>8oz bt</th>
<th>14oz cart</th>
<th>1# bt</th>
<th>2# can</th>
<th>3# can</th>
<th>35# pail</th>
<th>120# drum</th>
<th>400# drum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>31003</td>
<td>31008</td>
<td>31015</td>
<td>31018</td>
<td>31025</td>
<td>31030</td>
<td>31050</td>
<td>31130</td>
<td>31425</td>
<td></td>
</tr>
</tbody>
</table>

**POLY-TEMP® Anti-Seize Tapes**

PTFE Tapes filled with Copper, Nickel, or Ceramic Powders

Poly-Temp® Copper Tape is used for cleaner, high-temp, threaded, anti-seize applications. Reduces required torque, applies easily, seals tightly, overcomes high-temp seizing. Protects against corrosion, rusting, and galvanic pitting. Temps. -450° (-268°C) to +550°F (288°C).

Poly-Temp® Nickel Tape is for applications where copper cannot be used including chemical, extremely high temps., and harsh environments. Made especially for stainless steel threads. Temps. -450° (-268°C) to +550°F (288°C).

Poly-Temp® Ceramic Tape (Food Grade) is formulated specifically for anti-seize applications typical to the food industry. Resin meets the FDA requirement 21 CFR 177.1550. Temps. -450° (-268°C) to +550°F (288°C).

**Features and Benefits:**
- Easy to apply from handy plastic spool
- Will not squeeze out and rub off like grease based products
- Discourages seizing, galling, and carbon fusing
- Compatible with a wide range of chemicals
- Non-flammable, non-staining
- Inhibits corrosion, rusting, and galvanic pitting
- Excellent pipe thread sealant up to 550°F (288°C)

Available In:

<table>
<thead>
<tr>
<th>P/N</th>
<th>1/2x600 (10/case)</th>
<th>3/4x600 (6/case)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly-Temp® Copper P/N:</td>
<td>36136</td>
<td>36151</td>
</tr>
<tr>
<td>Poly-Temp® Nickel P/N:</td>
<td>36336</td>
<td>36351</td>
</tr>
<tr>
<td>Poly-Temp® Ceramic P/N:</td>
<td>36536</td>
<td>36551</td>
</tr>
</tbody>
</table>

H-P STAINLESS STEEL™ Anti-Seize Compound, Nuclear Grade

H-P STAINLESS STEEL™ Anti-Seize Compound, Nuclear Grade, is formulated with ultra pure graphite and stainless steel powder to meet the demanding requirements of the Nuclear and electrical power generating industry. Each lot is rigorously tested for halogens, sulfur, nitrates, nitrides, and low melting metal elements specifically restricted for use in Nuclear power plants. Exceeds the purity requirements set forth by Westinghouse and General Electric for use in nuclear power plants as well as turbine applications.

H-P STAINLESS STEEL™ Anti-Seize Compound, Nuclear Grade contains a premium, fully synthetic, non-melting base grease to withstand temperatures in excess of 450°F (232°C). It will not drip at extreme temperatures. Stainless Steel fillers form a laminar matrix of overlapping particles to shield out moisture, providing a high degree of chemical, corrosion, and UV resistance. Will provide thermal resistance from -50°F to 2400°F (-46°C to 1316°C).

Features and Benefits:
- Complies with Toshiba/Westinghouse Specification; APP-GW-ZO-602 and GE/Hitachi Specification; D50YP12.
- Nuclear power plant hardware Class 1, 2, 3 fittings in reactors, steam generators, and turbines. Particularly good for critical, large joint assembly.
- Ultra low levels of restricted elements for the nuclear and electrical generation industry. Extreme low levels of sulfur, halogens, and low melting point metals.
- Traceability of lot with test report.
- Excellent chemical resistance. Prevents galling and seizure when assembling hard metal alloys.
- Seals out moisture from underlying parts to enhance corrosion resistance.
- Non-melting grease means compound will stay on parts at elevated temperatures without dripping off and contaminating surrounding areas.
- Low environmental impact

Available In: 8oz bt | 1# bt | 38oz can
P/N: 63010 63018 63025

Applications: Gauges and Fittings, Fasteners in Steel Mills, power and nuclear plants. Electrical engineering plants. Stainless steel pipe fittings and unions, reactor bolts, fasteners in exhaust manifolds, turbine bolts.

Anti-Seize Technology introduces our

SLICKON® BOLT DIP & BRUSH™

Our SLICKON® BOLT DIP & BRUSH™ is a revolution on how to apply a messy Anti-Seize compound to a fastener. It is faster and cleaner than any other previous method you have used in the past.

This Bolt applicator will save you time and money by greatly minimizing the mess that usually is involved with a traditional brush-on application.

The SLICKON® BOLT DIP & BRUSH™ has had real world testing by some of the top mechanics and demonstrates 80% time savings. When you consider this applicator uses 50% less Anti-Seize than traditional methods, the savings really add up. Can be refilled and reused.

The SLICKON® BOLT DIP & BRUSH™ is designed to apply various types of Anti-Seize Compounds in the following applications to bolts from #6 to 1/2".

For Assembly Stations In:
- Automotive - Industrial - Marine - Food
- Anywhere bolts are used!

Ordering Information: please specify the Anti-Seize compound for your SLICKON® BOLT DIP & BRUSH™, filled with 8 oz of product by using the following part numbers:

<table>
<thead>
<tr>
<th>Anti-Seize Product:</th>
<th>Cop-Graf Special Nickel-Grat Moly-Lit Metal-Free Zinc Copper-Plate Aluminum Plate Nickel-Plate Moly-Plate Pure-White Hi-Temp Food Grade Marine Grade Non-Metallic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicator filled w/ Product:</td>
<td>11338</td>
</tr>
<tr>
<td>Refill Tube: (8oz. Net Wt)</td>
<td>11008</td>
</tr>
</tbody>
</table>

Note: Bolt Dip & Brush Applicator (empty is P/N 30108)

SLICKON® is a registered trademark Anti-Seize Technology

Anti-Seize Technology SLICKON® BOLT DIP & BRUSH™ is the Solution for a fast, clean, and easier way to apply Anti-Seize Compounds to your bolts!
**TUF-SET™** Pipe Thread Sealant

TUF-SET™ is a high-performance HVAC blue pipe-thread sealant. It has a smooth consistency for easy application, and is formulated for fast drying to ensure quicker sealing time. TUF-SET™ stays flexible to resist vibrations and thermal expansions or contractions, has no PTFE, no heavy metals such as lead or cadmium, and can be used on all metal and most plastic pipe connections. Not for oxygen use. For Blazermaster CPVC, use our GTS Gold™.

**Features and Benefits:**
- Dries quickly, stays firm but flexible
- Corrosion inhibiting, seals a wide variety of chemicals
- Non-seizing to allow easy disassembly
- Non-toxic, no heavy metal fillers

**Temperature/Pressure Range:** Withstands temperatures -40° to 400°F (-40° to 204°C) and pressures up to 10,000 psi (liquid).

**Applications:** Suitable for use with water, drain and waste, natural gas, steam, propane, butane, kerosene and similar fuels, gasoline, oil, mineral spirits, ammonia, all common refrigerants, refrigeration oils, ref. compressed air, industrial gases, welding gases, etc. Designed for use in the Heating, Air Conditioning, Refrigeration, as well as other commercial, industrial, and residential plumbing applications.

**Available In:**
- 3oz tube
- ½pt bt
- ½pt bt
- 1qt can
- 1qt bt
- 1gal pail
- 5gal pail
- 55gal drum

**P/N:**
- 56003
- 56004
- 56008
- 56018
- 56025
- 56026
- 56030
- 56050
- 56055

**SOF-SET™** Premium General Purpose Pipe Thread Sealant

Sof-Set™ is a semi-smooth, easily-applied, thread-sealing compound formulated with special ingredients to provide superior sealing to a variety of liquids and gases. Sof-Set™ is non-petroleum based with a high-solids content that firms up after application to further promote a quality seal. Not for oxygen use.

**Features and Benefits:**
- Dries to a soft set
- Corrosion inhibiting
- Non-metallic solids
- Non-seizing to allow easy disassembly
- Non-dripping
- May be applied to newly cut hot threads

**Temperature/Pressure Ranges:** Withstands temperatures to 400°F (204°C) and pressures up to 10,000 psi (liquid), 2,600 psi (gas).

**Applications:** Threaded connections for water, steam, LP and natural gas, refrigerants, fuels oils, hydraulic oil, diluted acids, and caustics. Use on all metal and PVC threaded pipe connections found in commercial, industrial, and residential systems.

**Available In:**
- ½pt bt
- 1pt bt
- 1qt can
- 1qt bt
- 1gal pail
- 5gal pail
- 55gal drum

**P/N:**
- 29010
- 29018
- 29025
- 29026
- 29030
- 29050
- 29055

**TFE™** Pipe Thread Sealant w/PTFE

TFE™ is a superior-grade, non-hardening, heavy-duty pipe thread sealant that is easy to apply. Formulated to a thick paste consistency, its fortified with an extra amount of PTFE and PTFE materials to give a positive seal with less effort. Because of its unique solids content, TFE™ fills thread imperfections and provides leak-proof joints that seal for the life of the connection. Not for oxygen use.

**Features and Benefits:**
- Heavy-duty sealant
- Contains no solvents
- Seals immediately, no waiting
- Non-staining, non-corrosive, non-hardening, non-toxic
- Non-dripping, can be applied to newly cut hot threads
- Prevents corrosion, seizing and galling
- UL Classified and NSF Registered
- UL Classified for fire protection sprinkler systems

**Temperature/Pressure Ranges:** Withstands temperatures to 500°F (260°C) and pressures to 10,000 psi (liquid), 2,000 psi (gas).

**Applications:** For use on pipes carrying water, steam, LP and natural gas, refrigerators, solvents, caustics, dilute acids, oils, and diesel fuel. Use on all pipe threads made of cast iron, malleable, brass, copper, and stainless steel. Designed for use by all pipe fitters, fabricators, plumbers, and mechanical contractors.

**Available In:**
- 2oz tube
- 3oz tube
- ¼pt bt
- ½pt bt
- 6oz tube
- ½pt bt
- 1pt can
- 1pt bt
- 1qt can
- 1qt bt
- 1gal pail
- 5gal pail
- 55gal drum

**P/N:**
- 14002
- 14003
- 14005
- 14008
- 14012
- 14016
- 14018
- 14025
- 14026
- 14030
- 14050
- 14055

**SLICKON® GTS GOLD™** Thread Sealant w/PTFE

SLICKON® GTS GOLD™ is engineered and tested to be FBC™ system compatible with FlowGuard Gold®, BlazeMaster®, and Corzan® pipe and fittings. General purpose use, paste consistency, heavy-duty, thread-sealing compound. Contains no solvents or other ingredients that harm CPVC plastics.

**Features and Benefits:**
- Non-hardening, non-dripping, non-toxic
- Suitable for use with potable water
- Contains no solvents, non-curing
- Connections can be put into service immediately
- Self-lubricating
- Positive seal
- Brush-top applicator available

**Temperature/Pressure Ranges:** -50° to 500°F (-45° to 260°C), up to 8,000 psi (liquids), up to 2,000 psi (gas)

**Restrictions:** Not for use on oxygen systems or concentrated chlorine.

**Applications:** May be used on many types of pipe including steel, brass, aluminum, stainless steel, copper, PCV, PVC, ABS, Polyethylene, and Polypropylene. Recommended for pipes carrying potable water, steam, LP, natural gas, refrigerants, dilute caustics, acids, diesel fuel, gasoline, anti-freeze, ethylene glycol, propylene glycol, concentrated propylene glycol at 50/50 and glycercin at 50/50.

*See page 31 for P.O.P. display.*

**Available In:**
- 3oz tube
- ½pt bt
- 1pt bt
- 1qt can
- 1qt bt
- 1gal pail
- 5gal pail
- 55gal drum

**P/N:**
- 54003
- 54008
- 54018
- 54025
- 54026
- 54030
- 54050
- 54055

**SLICKON®** is a registered trademark of Anti-Seize Technology.
**AST-SEAL™ HYD**

**Temperature Range:** -40º to 300ºF (-40º to 149ºC), 350ºF (176°C) intermittent, pressures to 5,000 psi, 1,000 psi (gas)

**Applications:** Pipe thread sealant for 1/2” to 2” NPT metal piping. For systems carrying water, steam, compressed air, natural gas, sprinkler systems, gasoline, diesel fuel, kerosene, heating oil, propane, anti-freeze solutions, refrigeration gases, dilute acids, caustics, and many other common chemicals. Use for repair and maintenance in many industries including marine, automotive, plumbing, pool and spa, food service, agricultural, institutional, municipal, and utilities.

**Features and Benefits:**
- Non-shredding, non-contaminating
- Made for high-pressure fluid power systems
- Easy to apply, non-destructive disassembly

**Available In:**
- 10ml bottle
- 50ml bottle
- 250ml bottle

P/N:
- AST-SEAL HYD: 22541, 22542, 22543
- AST-SEAL PH: 22544, 22545, 22546

---

**AST-SEAL™ Std • AST-SEAL™ HD**

**Anaerobic Pipe Sealants w/PTFE**

**AST-SEAL™ Std** (Standard Grade) is a general-purpose pipe sealant providing an instant permanent seal that cures in the absence of air to lock threads securely. Withstands temperatures from -65º to 300ºF (-54º to 149ºC) continuous, 375ºF (191ºC) intermittent.

**AST-SEAL™ HD** (Heavy Duty) stainless steel grade is formulated for stainless steel alloy fittings to cure more quickly than standard grade anaerobic. Withstands temperatures from -65º to 400ºF (-54º to 204ºC) continuous, 500ºF (260ºC) intermittent. UL Classified. DEF (Diesel Exhaust Fluid) Compatible.

**Pressure Range:** Seals to 1,000 psi immediately after application and up to the burst rating of a typical pipe after curing. Will not clog small openings typically found in hydraulic systems.

**Applications:** Most metal threads, particularly steel and brass. Ideal for fittings, pipes, valves, gauges, and connections in hydraulic, pneumatic, lubrication, steam, and refrigerant systems. Inert to most industrial hazards and hydrocarbons (gasoline, diesel fuel, etc.), most acids, chemicals, solvents, and gases.

**Features and Benefits:**
- Fast drying, non-toxic, non-corrosive
- Long service life, good chemical resistance
- Excellent lubrication, eases assembly, resists dripping

---

**S’MOOTH™**

**Thread Sealant w/PTFE**

S’MOOTH™ is a general-purpose metal pipe thread sealant for industrial and residential use. This white paste has a smooth consistency and no grit.

**Features and Benefits:**
- Non-shredding, non-contaminating
- Made for high-pressure fluid power systems
- Easy to apply, non-destructive disassembly

**Available In:**
- 10ml bottle
- 50ml bottle
- 250ml bottle

**Temperature Range:** -60º to 350ºF (-51º to 176ºC)

**Applications:** For use on refrigeration, hydraulic, and pneumatic systems.

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**AST-PPD™**

**Plumber’s Pipe Dope Professional Grade**

AST-PPD™ is a smooth, grit-free, gray-colored pipe joint compound. It seals threaded joints and will not crack or crumble. Made for easy disassembly. Contains no lead and is safe for all water systems.

**Features and Benefits:**
- Sets soft, non-hardening
- Contains non-toxic, inert oils and carbonate
- No lead, no silicone
- Brushable to -15ºF (-26ºC)

**Temperature/Pressure Ranges:**
- Liquid and Gasses: -15ºF to 400ºF (-26º to 204ºC), up to 2000 psi (liquid), up to 1000 psi (gas)

**Available In:**
- ¼pt bt
- ½pt bt
- 1pt bt

**P/N:**
- 15005
- 15008
- 15018

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**AST-SEAL™ Std**

**AST-SEAL™ HD**

---

**GHS**
Poly-Temp® XHD (Extra Heavy Duty) tapes are full density tapes which deposit more PTFE per wrap of tape and are tougher, stronger, and more durable than other grades. All XHD tapes meet Military Spec. C.I.D. A-A-58092 for oxygen service.

Poly-Temp® MD General Purpose, Medium Density, Thread Seal Tape
Our most-popular thread seal tape, Poly-Temp® MD is made from 100% pure PTFE resins. Its medium density allows it to be used as a general-purpose thread seal tape in most applications. May be used on all types of pipes and most services. More economical than most paste threading compounds, never dries out, no mess, no dripping, easy to apply. UL Listed.

Poly-Temp® HD Heavy Duty PTFE Tape
The same characteristics and advantages of the standard Poly-Temp® MD material, plus thicker and higher in specific gravity (high density). UL Listed.

Poly-Temp® XHD Extra Heavy Duty PTFE Tape
Our highest grade of PTFE tape, extra thick and extra density material. Meets the Government Spec C.I.D. A-A 58092. UL Listed, Recognized Component and ULC. Suitable for oxygen systems.

Poly-Temp® SSG (XHD) Stainless Steel Grade PTFE Tape
Poly-Temp® SSG XHD with its nickel content is designed to perform as a sealant and as an anti-seize for difficult service conditions associated with stainless steel and SS alloys.

Poly-Temp® GAS (XHD) Yellow Gas Line PTFE Tape
Same material as the Poly-Temp® XHD, has approval from the CSA (Canadian Standards Association) for gas lines (CSA #4-90). UL Listed, Recognized Component and ULC, C.I.D. A-A-58092. Suitable for oxygen systems.

Poly-Temp® PNK (XHD) Pink Plumber’s Tape
A Full Density PTFE Thread Seal Tape especially designed for professional plumbers. The pink color distinguishes it itself from low-grades of PTFE tapes. Suitable for demanding industrial and commercial plumbing applications. Strong and durable with positive sealing for tough applications. Recommended for galvanized pipe, copper, brass, chrome, or other plated pipe. UL Listed, C.I.D. A-A-58092. Suitable for oxygen systems.

Low Density PTFE Thread Seal Tape
More economically suited for some markets. Low Density PTFE made with virgin PTFE (Polytetrafluoroethylene), is a thread sealant for all services, chemically inert, non-hardening, and withstands temperature ranges between -400° to 500°F (-240° to 260°C). It is compatible with all pipe materials without exception, forms a permanent seal for the life of the connection, and is recommended for all pipe sizes (larger thread sizes require more wraps). Meets MIL-T-27730A.

Poly-Temp® is a registered trademark of Anti-Seize Technology.
**AST-XPAND™ Expanding Foam Sealant**

*AST-Xpand™* is an expanding urethane foam ideal for permanent sealing of holes, spot-insulating, and sealing out air, dust, and moisture. Formulated for easy use, the foam expands to three times its original volume, bonds to wood, metal, masonry, glass, and most plastics. Adequately fills voids and provides a tight seal.

**Features and Benefits:**
- For insulation, noise reduction, and even blocking out pests
- Applies quickly to most surfaces
- Application is ideal for hard-to-reach places to save both time and labor
- Dries tack-free in 15 minutes, sets in about 8 hours
- Cured product can be trimmed, sanded, and painted
- UL Classified as a caulking and sealant
- One 12oz aerosol can equals the volume of 20 tubes of caulk (2.5 gallons)

**Temperature Range:** Maximum Service Temp. 245°F

**Applications:** Insulating and sealing around ducts, pipes, plumbing fixtures, HVAC units, vents, windows and doors, outdoor frames, electrical outlets, foundations and other problem areas.

**Available In:**
- 12oz aerosol can* with applicator tube

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**AST-PUT™ Plumber’s Putty/Professional Grade**

*AST-PUT™* plumber’s putty is stainless, long-lasting, and easy to use. It will not harden, crack, or shrink; even if the can is left open.

**Features and Benefits:**
- Smooth and uniform consistency
- Non-hardening
- Will not stick to fingers
- Meets Federal Specification TT-P-1536A
- Not for marble installations

**Applications:** For setting bowls, faucets, rims, strainers, and other similar sealing and caulking jobs.

**Available In:**
- 14oz tub
- 3lb tub
- 5lb tub

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**PIPE JOINT & GASKET LUBRICANT**

Pipe Joint and Gasket Lubricant is ideal for rubber gaskets on pipelines including PVC and soil pipes. It's a water-soluble lubricant aids in assembly of push-on type joints, ensures proper expansion, and correct fit. Listed with the National Sanitation Foundation (NSF) NSF ANSI 14.

**Features and Benefits:**
- Paste like, easy to apply to wet or dry
- Water-soluble, non-petroleum
- Non-toxic, suitable for use on potable water systems
- Does not support bacterial growth
- Will not harm rubber or synthetic gaskets

**Applications:** Push-on pipe joints with rubber or synthetic gaskets.

**Available In:**
- 1qt tub
- 1gal pail
- 5gal pail

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**LUBE-CUT™ (DARK and LIGHT)**

Thread Cutting Oils

*Lube-Cut™* heavy-duty cutting oils are formulated for hand threading and high-speed machine threading. *Lube Cut* is carefully blended with sulfur and the purest of additives insuring the greatest protection for your dies and pipe threads.

**Features and Benefits:**
- Non-chlorinated, environmentally safe
- Excellent wetting characteristics
- Formulated with antioxidants and rust inhibitors
- Reduces friction and wear
- Extends die life

**Available In:**
- 18oz aerosol can*
- 1pt squirt
- 1qt w/trigger sprayer
- 1gal
- 5gal
- 55gal

**DARK PIN:**
- N/A
- 51016
- 51032
- 51001
- 51005
- 51055

**LIGHT PIN:**
- 17051
- 51216
- 51232
- 51201
- 51205
- 51255

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*Aerosol Cans Require GHS Labeling*
POLY-TEMP® JOINT
PTFE-UHF Joint Sealant

POLY-TEMP® JOINT is a 100% expanded PTFE/UHF gasket material. It is a soft, pliable ribbon with a self-adhesive tape applied to one side. POLY-TEMP® JOINT is a tough, flexible, and economical universal gasket that replaces cut gaskets in a variety of regular and severe service applications. It will not deteriorate with age, is unaffected by common chemicals. This unique material is highly compressible and fills severe irregularities in sealing surfaces.

Features and Benefits:
- Self-adhesive, easy to work with
- Flanges part easily
- No re-torquing required
- Will not deteriorate with age
- Resists cold flow and creep
- UL recognized component
- Self-adhesive strip holds firmly in place.
- Reduces inventory of cut gaskets by eliminating need for many cut gasket sizes
- Cut with scissors and apply to sealing surface.
- Made with resin FDA compliant 21 CFR 177.1550 and 21 CFR 175.105
- Long service life, never hardens
- Low coefficient of friction
- Easy and fast to install
- Pressure-sensitive backing to hold in place
- Self-adhesive strip holds firmly in place.

Temperature/Pressure Ranges: Withstands pressures up to 3,000 psi and temperatures -450º to 600ºF (-268º to 316ºC).

Applications: Flanges, pump and compressor housings, heat exchangers, manway covers on rough or irregular surfaces, FRP (fiberglass reinforced plastic) vessels, steam vessel flanges, concrete lids, glass joints, food service and processes.

POLY-TEMP® GASKET
PTFE Gasket Tape

Poly-Temp® Gasket is made of pure virgin expanded polytetrafluoroethylene. The soft and conforming characteristics allow it to seal smooth surface irregularities found on flanges and equipment requiring a thin gasket profile. Seals through a wide temperature range from -450º to 600ºF (-268º to 316ºC) and seals internal pressures of up to 3,000 psi.

Features and Benefits:
- Made of 100% virgin PTFE
- Resistant to all common chemicals
- Will not contaminate flow material
- Resists cold flow and creep
- Pressure-sensitive backing to hold in place
- Will not deteriorate with age
- Easy to die-cut special gaskets
- Made with resin FDA compliant 21 CFR 177.1550
- UL and ULC recognized component

Applications: Laminate over metal gaskets to improve seal, sheet stock for die-cutting, emergency maintenance repairs to damaged gaskets, sight glasses, and manhole covers. Used in chemical plants, oil refineries, paper mills, and food services.

POLY-TEMP® VSP
PTFE Valve Stem Packing

Poly-Temp® VSP is 100% PTFE fluorocarbon that withstands vibration, severe corrosion, high temp and pressure conditions for the life of the valve. Its pliability allows the PTFE to conform to worn valve stems, as packing on some small, low-speed and low-pressure pumps, for all services including process lines in food and beverage plants, in chemical operations, petroleum refineries, and food services.

Features and Benefits:
- Easy and fast to install
- Virtually inert to all chemicals
- Low coefficient of friction
- Long service life, never hardens
- Compensates for waviness and scratches
- Meets FDA Req 21 CFR 177.1550
- Gland pressure compresses PTFE into a custom molded packing ring
- Reduces packing inventory—one size fits wide range of applications
- Will not contaminate product flow
- Meets FDA Req 21 CFR 177.1550
- Gland pressure compresses PTFE into a custom molded packing ring
- Reduces packing inventory—one size fits wide range of applications
- Will not contaminate product flow

Temperature/Pressure Ranges: Withstands temperatures of -400º to 500ºF (-240º to 260ºC) and pressures to 500 psi for general conditions.

Applications: All valve stems, as packing on some small, low-speed and low-pressure pumps, for all services including process lines in food and beverage plants, in chemical operations, petroleum refineries, and food services.
AST-RTV™ Silicone Adhesive/Sealant/Instant Gasket

Features and Benefits:
- Superior caulking, bonding, and sealing qualities
- Easier to use than other gasketing methods
- Resists chemicals, temperature extremes, weather, vibration, moisture, and ozone
- Will not sag, run off, or shrink
- Functions in hundreds of applications as a specially sealant and flexible adhesive
- Excellent non-conducting characteristics

100% RTV Silicone is a multi-purpose, single-component acetoxy cure adhesive sealant that quickly adheres to most surfaces. It cures in 24 hours providing a tough, resilient, silicone rubber good for hundreds of applications.

100% RTV Silicone can be used for gasketing, sealing, bonding, insulating, caulking, encapsulating, and coating. This flexible material resists shrinking, cracking, weather, ozone, moderate chemicals, moisture, vibration, and extreme temperatures ranging from -75°F to 450°F (-59°C to 232°C), Hi-Temp Red -85°F to 500°F (-65°C to 260°C) continuous and 600°F (315°C) intermittent exposure.


AST-RTV™ Silicone is great for making replacements of custom gaskets in typical automotive applications including valve covers, rocker covers, oil pans, water pumps, end seals, intake manifolds, and rear axle housing. AST-RTV™ Silicone can also be used as a sealant and adhesive for assembly and repair of furnaces, ovens, boilers, exhaust stacks, pumps, power tools, machinery, etc. AST-RTV™ Silicone is better than conventional gaskets because it fills in surface irregularities.

As a sealer and caulk, use AST-RTV™ Silicone to seal heating and ventilating ducts. It seals cracks and gaps around windows, vents, doors, machinery, truck cabs, trailers, fixtures, lights, walls, bathtubs, sinks, etc. It can be used to waterproof electrical connections and boxes. It seals out water from compartments in machinery as well as holes where wire tubing or refrigeration lines run through walls.

As a flexible adhesive, AST-RTV™ Silicone is versatile and easily bonds dissimilar materials. It provides excellent adhesion to all clean metals, glass, most types of wood, porcelain, acrylic, resin, silicone rubber, granite, marble, laminate, cork, vinyl, etc. Attach nameplates and signs to equipment, walls, doors, windows (interior or exterior), AST-RTV™ Silicone bonds gaskets in heating and refrigeration. Testing is necessary and assumed by the user.

As a specialty sealant, AST-RTV™ Silicone can be used to seal or coat components exposed to moisture, vibration, shock, automotive oils, moderate or oxidizing chemicals, ozone, concentrated sodium hydroxide for a long period of time. This product can be used as a formed-in-place gasket where irregular shapes and harsh conditions reject ordinary seals. It is also effective for repairing electrical insulation, sealing insulators and entrance parts to transformers. Testing is necessary and assumed by the user.

Product Description: AST-RTV™ Silicone is Acetoxy cure, Room temperature vulcanizing, Single component homogeneous paste.
AST-GASKET MAKER™ Flexible Anaerobic Gasket

AST-Gasket Maker™ is a smooth, thick, purple paste. The anaerobic chemistry of this product creates a tough flexible formed-in-place gasket. Once confined between two components, AST-Gasket Maker™ provides an instant low pressure seal.

Features and Benefits:
- Alleviates the need for preformed gaskets
- Remains Liquid when exposed to air
- Cures when confined between mating flanges
- Prevents corrosion and galling of threads
- Can fill gaps as large as 0.01" to 0.02"

Temperature Range: -65°F to 300°F (-54ºC to 179ºC)

Applications: Fuel and water pumps, split crank cases on engines, gearbox covers, engine thermostats, air compressor end caps, chainsaws, lawn mowers, etc. Can be used with or without pre-cut, pre-formed gaskets.

Available In: 50 mL (1.69 FL oz.)

P/N: 50152

POLY-TEMP® JOINT p. 12

AST-RTV™ Silicone p. 13

AST-Gasket Maker™ p. 14

POLY-TEMP® JOINT p. 12
CA-020™, CA-120™, CA-220™

Instant Adhesives

CA-020™ (Regular Viscosity) instant adhesive is an ethyl-cyanoacrylate adhesive. CA-020™ is a general purpose, fast-curing product with good elasticity for bonding plastics, metal, rubber, glass, and dissimilar materials.

CA-120™ (Medium Viscosity) instant adhesive is slightly thicker for those applications requiring less run off. Better for metal and ceramics.

CA-220™ (Non-run Gel) instant adhesive for overhead or vertical areas where the adhesive must stay put during pre-assembly. Best for porous surfaces.

Features and Benefits:
- Most versatile instant adhesives available
- Fast overall cure speed
- Three viscosities to accommodate all requirements
- Convenient dispenser bottle with screw cap

Temperature Range: Withstands temperatures of -40º to 180ºF (-40º to 82ºC), Intermittent 250ºF (121ºC)

<table>
<thead>
<tr>
<th></th>
<th>CA-020</th>
<th>CA-120</th>
<th>CA-220</th>
</tr>
</thead>
<tbody>
<tr>
<td>Available In</td>
<td>1oz (28g) bottle</td>
<td>1oz (28g) bottle</td>
<td>20g tube</td>
</tr>
<tr>
<td>P/N</td>
<td>23020</td>
<td>23120</td>
<td>23220</td>
</tr>
</tbody>
</table>

Applications: Electronic equipment including PC boards, connectors, and transformers. Plastic cases, rubber fabrication and gaskets, appliances, and office equipment.

READY-STICK™ Epoxy Putties

Ready-Stick™ Epoxy Putties are hand-kneadable, will patch holes, repair cracks, and mend most anything that is broken. Excellent for rebuilding and fabricating parts.

Ready-Stick™ General Purpose Epoxy Putty—General purpose for metal, wood, glass, masonry, ceramics, concrete, fiberglass and many plastics.

Ready-Stick™ w/Steel Epoxy Putty—Steel-reinforced for ferrous and aluminum metals.

Ready-Stick™ w/Copper Epoxy Putty—Copper filled for copper, brass, bronze, and other non-ferrous metals.

Features and Benefits:
- Allows breaking off any portion to keep the unused stick for future use
- Can be tapped, drilled, filed, sanded and painted
- Eliminates drips and runs
- Underwater repairs
- Sets steel-hard in 20 minutes
- Safe for use with potable water

Temperature Range: Withstands temperatures of -40º to 250ºF (-40º to 121ºC), intermittent 300ºF (149ºC)

Applications: Plumbing and electrical repair, construction equipment, auto/truck repair, home/shop repair, iron pipes, concrete tools, oil and water tanks, tools, stripped threads, sink and pipe joints, gas tanks and radiators, molds, patterns, castings, and duct work.

<table>
<thead>
<tr>
<th></th>
<th>General Purpose</th>
<th>w/Steel</th>
<th>w/Copper</th>
</tr>
</thead>
<tbody>
<tr>
<td>Available In</td>
<td>4oz tube/sticks P/N</td>
<td>34114</td>
<td>34224</td>
</tr>
</tbody>
</table>

* See page 31 for P.O.P. display. Ready-Stick™ Epoxy Putties are individually packaged in re-sealable plastic tubes.

ADHESIVE SPRAY

Adhesive Spray is a multi-purpose, pressure-sensitive adhesive designed to form either permanent or temporary bonds between two porous or non-porous materials.

Adhesive Spray is specially designed for many industrial applications as well as contractor, office, home, and hobby use. Adhesive solids are non-toxic, non-irritating.

Features and Benefits:
- Colorless
- Low soak-in
- Non-clogging
- Waterproof
- Meets FDA 21 CFR 175.105
- Non-toxic solids
- Fast aggressive tack action
- Aerosol is CFC Free

Temperature Range: Up to 110ºF

Applications: Permanent and temporary bonds on paper, cardboard, all types of gaskets, cloth, foil, mylar or acetate sheets, glass, many plastics, urethane foam, leather and foam rubber. Temporary bond eliminates need for tacks or pins making any surface a bulletin board. Printing plants, advertising agencies, trucking companies, shipping departments, and/or any industry requiring package sealing and applying labels.

Available In: 12oz aerosol

P/N: 17066

*Aerosol Cans Require GHS Labeling
AST-LOCK™ and AST-SEAL™ anaerobics cure within metal connections in the absence of oxygen at ambient temperatures. Available in a full range of strengths & viscosities, these anaerobics fill all surface imperfections and set to a tough, durable seal across the entire surface – distributing the stress load, reducing fastener fatigue. Vibration loosening is prevented, and the connection is sealed and protected against corrosion.

**ANTI-SEIZE TECHNOLOGY’S**

**AST-LOCK™**

Anaerobic Threadlockers, Retaining Compounds, and Anaerobic Sealants provide a solution for every practical industrial application.

**Lock** screws in place.

**Secure** bolts and studs.

**Retain** bearings and housings; reduce maintainance for pneumatic/hydraulic equipment.

**Seal** hairline weld fractures.

**Seal** standard and stainless steel pipe for the life of the connection.

**Use** right out of the bottle.

Packaged in three popular sizes to suit your particular job or application.

* See page 31 for P.O.P. display.

**FOR USE WITH MOST AST-LOCK™ / AST-SEAL™ ANAEROBIC COMPOUNDS:**

AST-LOCK™ PRIMER T HEPTANE BASED • FAST ACTING

AST-LOCK™ PRIMER N HEPTANE BASED • LONG LASTING

**P/N SIZE COLOR**

### THREADLOCKERS

- **AST-LOCK™ 22LS** Low Strength/Str. • Threadlocking
  - 39221 • 10mL
  - 39222 • 50mL
  - 39223 • 250mL
  - MIL-S-46163A Type II, Grade M

- **AST-LOCK™ 42MS** Medium Strength • Removable
  - 39421 • 10mL
  - 39422 • 50mL
  - 39423 • 250mL
  - MIL-S-46163A Type II, Grade N

- **AST-LOCK™ 62HS** High Strength • Nut/Bolt Locking
  - 39621 • 10mL
  - 39622 • 50mL
  - 39623 • 250mL
  - MIL-S-46163A Type II, Grade O

- **AST-LOCK™ 71HS** High Temperature • Bolt/Stud Locking
  - 39711 • 10mL
  - 39712 • 50mL
  - 39713 • 250mL
  - MIL-S-46163A Type I, Grade K

- **AST-LOCK™ 72HT** High Temperature • Bolt/Stud Locking
  - 39721 • 10mL
  - 39722 • 50mL
  - 39723 • 250mL
  - N/A

- **AST-LOCK™ 77HS** High Str. • Heavy Duty • Bolt/Stud Locking
  - 39771 • 10mL
  - 39772 • 50mL
  - 39773 • 250mL
  - MIL-S-46163A Type I, Grade L

- **AST-LOCK™ 90PW** Penetrating/Wicking • Medium/High Str.
  - 39901 • 10mL
  - 39902 • 50mL
  - 39903 • 250mL
  - MIL-S-46163A Type III, Grade R

### RETAINING COMPOUNDS

- **AST-LOCK™ 09RC** General Purpose • Low Viscosity
  - 39091 • 10mL
  - 39092 • 50mL
  - 39093 • 250mL
  - MIL-R-46082B, Type I

- **AST-LOCK™ 20RC** High Temperature • High Viscosity
  - 39201 • 10mL
  - 39202 • 50mL
  - 39203 • 250mL
  - MIL-R-46082B, Type III

- **AST-LOCK™ 35RC** High Strength • High Viscosity
  - 39351 • 10mL
  - 39352 • 50mL
  - 39353 • 250mL
  - MIL-R-46082B, Type III

- **AST-LOCK™ 40RC** High Temperature
  - 39401 • 10mL
  - 39402 • 50mL
  - 39403 • 250mL
  - MIL-R-46082B, Type II

- **AST-LOCK™ 80RC** Fast Setting, Slip Fitted Parts
  - 39801 • 10mL
  - 39802 • 50mL
  - 39803 • 250mL
  - N/A

### ANAEROBIC SEALANTS

- **AST-SEAL™ 91WS** Low Viscosity • Wicking Type • Weld Sealant
  - 39911 • 10mL
  - 39912 • 50mL
  - 39913 • 250mL
  - MIL-R-46082B, Type I

- **AST-SEAL™ HYD** Hydraulic Sealant
  - 22541 • 10mL
  - 22542 • 50mL
  - 22543 • 250mL

- **AST-SEAL™ PH** Pneumatic / Hydraulic Sealant
  - 22544 • 10mL
  - 22545 • 50mL
  - 22546 • 250mL

- **AST-SEAL™ Std** Pipe Sealant w/PTFE
  - 22250 • 50mL
  - 22251 • 250mL
  - 22252 • 750mL

- **AST-SEAL™ HD** Stainless Steel Pipe Sealant w/PTFE
  - 22151 • 50mL
  - 22152 • 250mL
  - 22153 • 750mL

- **AST-SEAL™ Std** Pipe Sealant w/PTFE
  - 22250 • 50mL
  - 22251 • 250mL
  - 22252 • 750mL

**FOR USE WITH MOST AST-LOCK™ / AST-SEAL™ ANAEROBIC COMPOUNDS:**

- **AST-LOCK™ PRIMER T** HEPTANE BASED • FAST ACTING
  - Green
  - VISCOSITY: 2 CPS
  - ON PART LIFE: 7 DAYS
  - P/N: 39008

- **AST-LOCK™ PRIMER N** HEPTANE BASED • LONG LASTING
  - Clear Green
  - VISCOSITY: 2 CPS
  - ON PART LIFE: 30 DAYS
  - P/N: 39118
**AST-LOCK™ and AST-SEAL™** anaerobics are single-component, fast-curing, and solvent-free. Eliminates the need for other mechanical locking devices. Hardening only within the joint, anaerobics do not block or contaminate the system; excess resin outside remains in liquid state and is removed easily. Improve products quality and reliability.

**DESCRIPTION**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>LOCTITE® INTERCHANGE P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Best suited for metal fasteners under 3/4” when a low strength threadlocker is required for easy disassembly. Designed for setscrews, machine screws, calibration screws, adjustment screws, and thermostat screws.</td>
<td>AST-LOCK™ 22LS 222</td>
</tr>
<tr>
<td>Excellent general-purpose for nuts, bolts, and screws under 1”. Prevents fasteners from vibrating loose yet removable with hand tools. Applications include drive shaft fasteners, hydraulic bolts, and gearbox bolts.</td>
<td>AST-LOCK™ 42MS 242/243</td>
</tr>
<tr>
<td>Designed primarily for use on Grades 5 and 8, it is very strong for permanent fasteners up to 3/4”*. It resists harsh environments and impact; and is intended to seal fasteners with poor tolerances.</td>
<td>AST-LOCK™ 62HS 262</td>
</tr>
<tr>
<td>This high strength anaerobic is the best threadlocker for resisting extreme shocks, vibration, and/or environmental conditions. Use on vibrating machine fasteners, valve seats, and transmission studs up to 1”.</td>
<td>AST-LOCK™ 71HS 271</td>
</tr>
<tr>
<td>Our highest temperature-rated threadlocker is also one of the strongest. It is designed for some of the toughest applications that also require higher than usual temperature limitations.</td>
<td>AST-LOCK™ 72HT 272</td>
</tr>
<tr>
<td>Best suited for fastener applications with diameters greater than 1”. This threadlocker has the best gap filling capabilities with excellent strength and non-migrating characteristics.</td>
<td>AST-LOCK™ 77HS 277</td>
</tr>
<tr>
<td>Intended to penetrate and seal pre-assembled fasteners by capillary action. Use to secure setscrews and other assemblies after final adjustments are completed.</td>
<td>AST-LOCK™ 90PW 290</td>
</tr>
<tr>
<td>Designed for augmenting the strength of press-fitted assemblies and can be used on slip-fitted parts with a diametrical clearance of up to .005”. Should be used on new and replacement parts.</td>
<td>AST-LOCK™ 09RC 601/609</td>
</tr>
<tr>
<td>Specifically engineered to meet close tolerance and high temperature requirements. Maximum gap-filling ability makes this retaining compound the perfect choice for loosely fitted parts. Use a primer on gaps over .005”.</td>
<td>AST-LOCK™ 20RC 620</td>
</tr>
<tr>
<td>This retaining compound is best suited for applications when readjustments or repositioning of parts during assembly are necessary.</td>
<td>AST-LOCK™ 35RC 635</td>
</tr>
<tr>
<td>For high temperature applications with gap fill up to 0.007”.</td>
<td>AST-LOCK™ 40RC 640</td>
</tr>
<tr>
<td>Good for joining fitted cylindrical parts, filling diametrical larger gap sizes up to 0.15”.</td>
<td>AST-LOCK™ 80RC 680</td>
</tr>
<tr>
<td>A low viscosity and high strength makes this product the best for sealing the porosities found in weldments and other porous metals. Seals seams up to 0.127 mm wide.</td>
<td>AST-LOCK™ 91WS 290</td>
</tr>
<tr>
<td>An excellent sealant for straight metal threads up to 1” diameter created to withstand hydraulic system pressures. It also exhibits high temperature and solvent resistance to water and non-polar solvents.</td>
<td>AST-SEAL™ HYD 569</td>
</tr>
<tr>
<td>Resistant to all hydraulic fluids. It is non-contaminating. Non-shredding, and principally used on high-pressure fluid systems. Made for use on fine filtration systems.</td>
<td>AST-SEAL™ PH 545</td>
</tr>
<tr>
<td>This low strength paste enriched with PTFE is a high performance pipe thread sealant. During assembly it assists as an excellent lubricant and seals instantly. Once cured it has a high chemical resistance.</td>
<td>AST-SEAL™ Std PST 565</td>
</tr>
<tr>
<td>High Strength paste with PTFE designed for even tougher applications and harsh environments. It is excellent for use when sealing inactive metallic surfaces such as stainless steel or galvanized pipe. DEF (Diesel Exhaust Fuel) Compatible.</td>
<td>AST-SEAL™ HD PST 567</td>
</tr>
</tbody>
</table>

**ANTI-SEIZE TECHNOLOGY**

A primer is recommended for use on plated, anodized, galvanized, parts and inactive metals such as stainless steel, titanium, aluminum, zinc, and others. Also effective on challenging assemblies with large gaps or deep threads.
SLICKON® FLOW-LUBE™

**w/PTFE A Superior Longer Lasting Industrial Lubricant**

**SLICKON® FLOW-LUBE™** is an industrial lubricant ideal for preventative and corrective maintenance that will keep equipment in service longer and reduce costly breakdowns caused by worn and soiled parts. Unique coating action fills in surface irregularities with a combination of premium petroleum oils, micronized PTFE, and extreme pressure additives which act to keep the PTFE in place for long-lasting lubrication.

**Features and Benefits:**
- Penetrates to displace contaminants
- Reduces friction to increase part life
- Prevents rust, corrosion, and icing
- Rejects dirt, dust, sand, and other particles
- Keeps equipment running longer
- Displaces water, eliminates moisture, and prevents corrosion

**Temperature Range:** -60ºF to 475ºF

**Applications:**
- Bearings, cables, nuts & bolts, air & electric power tools, ball & socket joints, control cables, conveyors, cutting tools, drive chains, gears, glides, hinges, linkages, taps, dies, and more.

**Available In:**
- 15oz aerosol
- 3oz aerosol

<table>
<thead>
<tr>
<th>P/N</th>
<th>15oz aerosol</th>
<th>3oz aerosol</th>
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<tr>
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<td></td>
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<tr>
<td>17068</td>
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**ALL-PURPOSE 4-WAY™**

**Lubricant & Penetrating Oil**

**All-Purpose 4-Way™** is formulated to lubricate, penetrate, and displace moisture, leaving parts with a protective anti-rust film. This lubricant protects metal parts which helps eliminate pounding and breakage during disassembly. All-Purpose 4-Way™ has no CFCs, chlorinated solvents, or silicones.

**Features and Benefits:**
- Penetrates hard to reach places on contact
- Frees and lubricates frozen and rusted parts
- Displaces moisture
- Inhibits rust and corrosion and protects metal surfaces
- Cleans and degreases tools and equipment
- Unique aerosol can spray in any position

**Applications:**
- Frozen nuts and bolts, auto and truck parts/engines, hand tools, farm equipment, marine engines, locks, hinges, fire arms, etc.

**Available In:**
- 12oz aerosol
- 1pt squirt can
- 1pt spray bottle
- 1gal can
- 5gal pail
- 55gal drum

<table>
<thead>
<tr>
<th>P/N</th>
<th>12oz aerosol</th>
<th>1pt squirt can</th>
<th>1pt spray bottle</th>
<th>1gal can</th>
<th>5gal pail</th>
<th>55gal drum</th>
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<tbody>
<tr>
<td>17061</td>
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<td>53060</td>
<td>53061</td>
<td>53064</td>
<td>53065</td>
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**AST-PENETRANT II™**

**AST-Penetrant II™** is a heavy-duty, industrial strength penetrant. It quickly penetrates deep through rust, scale, and corrosion. Will free metal parts faster than ordinary penetrants/lubricants. AST-Penetrant II™ has no CFCs, chlorinated solvents, or silicones.

**Features and Benefits:**
- Deep penetrating action
- Quickly attacks heavy rust, corrosion, and mineral deposits
- Frees metal parts faster
- Reduces costs in time and labor
- Eliminates excessive parts breakage
- Jet stream delivery allows precision spraying
- Aerosol is CFC Free

**Applications:** Heavily rusted and corroded nuts and bolts, threaded connections, machinery linkages, pipe joints and tools. Heavy equipment, farm and marine equipment, pumps, valves and couplings.

**Available In:**
- 12oz aerosol

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<tr>
<th>P/N</th>
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**CHAIN & CABLE LUBE**

**Chain & Cable Lube** is a heavy-duty lubricant for reducing friction and wear. It is a mixture of penetrants, anti-oxidants, oils, and grease plus molybdenum disulfide which creeps into chain components and cable strands to provide long-lasting lubrication and rust protection. This lubricant forms a non-gumming thin film providing maximum lubrication and protection under severe conditions.

**Features and Benefits:**
- Multi-purpose, heavy-duty lubricant
- Contains Molybdenum Disulfide for added wear resistance
- Aerosol is CFC Free
- Thick foam penetrates and clings to all surfaces
- Provides non-gumming protective film
- May be applied while machinery is running
- Displaces water, eliminates moisture, and prevents corrosion

**Applications:** Roller chains and drives, hoists and conveyors, wire rope and cable, chain saws, sprockets, link and roller assemblies, hinges, and many indoor/outdoor applications.

**Available In:**
- 16oz aerosol

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<th>P/N</th>
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<td>17040</td>
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