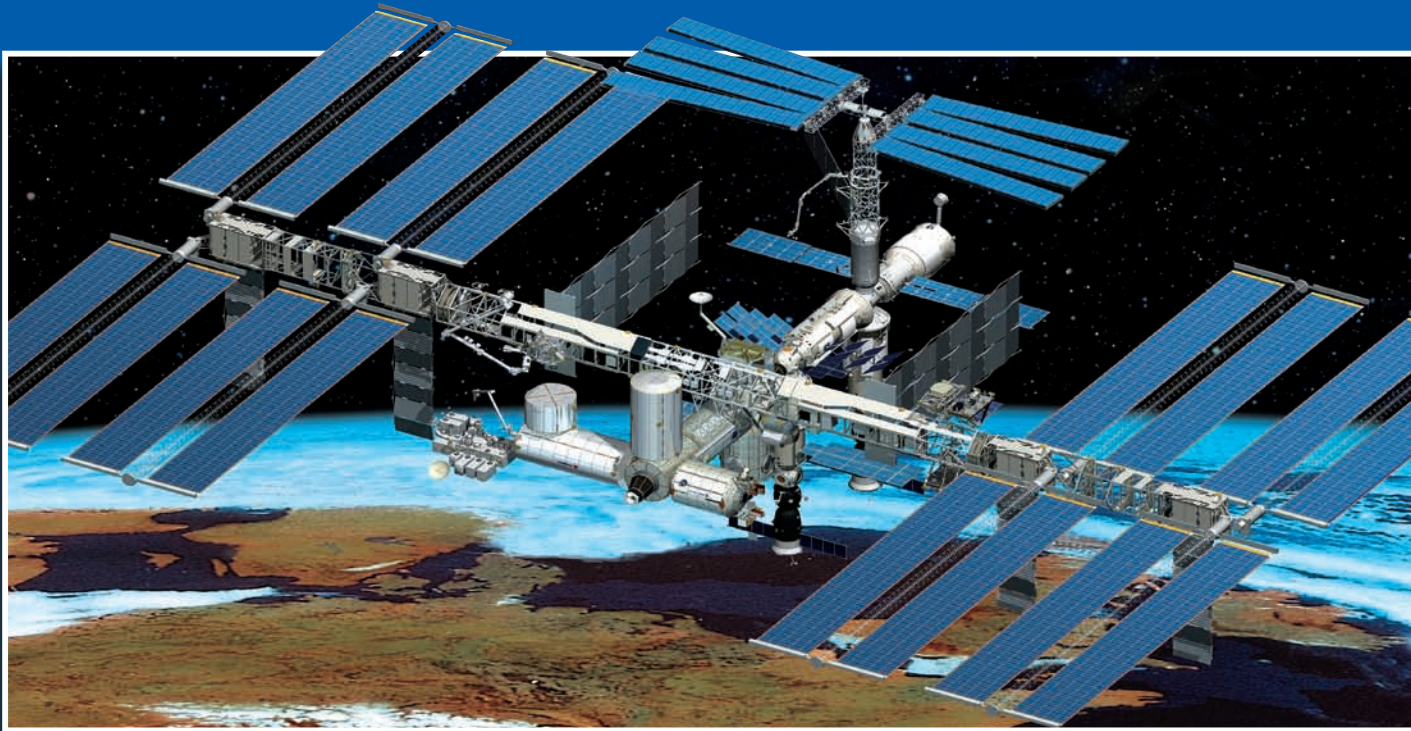


# SAF-T-LOK<sup>®</sup>



## Performance by Design

THREADLOCKING  
RETAINING  
SEALING  
GASKETING  
BONDING  
ANTI-SEIZE LUBRICATING



MADE IN USA—QUALITY CERTIFIED AROUND THE WORLD



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Visit our Award Winning Web Site:

[www.saftlok.com](http://www.saftlok.com)

- Tech Data Sheets
- Current MSDS
- Applications Info.
- Cross References
- Interaction Assistant





As an ISO 9001: 2008 certified firm, SAF-T-LOK International Corporation's quality adhesive/sealants and manufacturing capability represent the new standard for this industry. With global objectives in mind, an internationally recognized auditing company was chosen for certification. The capability to provide industry needs is clearly documented by having received the highest quality rating possible, ISO 9001 as early as 1995. An integral part of this world class certification is the SAF-T-LOK commitment to continual improvement in every element of its business.

SAF-T-LOK goes beyond the typical corporate objectives as indicated in the company "Quality Statement." Each member of the SAF-T-LOK team will strive not only to meet, but to "exceed customers expectations."

With growth rates of emerging economies far outpacing that of the western world SAF-T-LOK was early to recognize the potential for assembly regions and as the lights are turned out at the end of the day in America, the lights are being turned on in a nonstop market development and product innovation cycle with our customers elsewhere in the world.

**J. Wendell Sherry**  
President and Chief Executive Officer

**W**ith world standards demanding ever improving performance, SAF-T-LOK was founded in 1983 to fill this industry need and specifically to provide the highest quality precision engineered adhesive and sealants. In a phrase "Performance by Design".

In fact, SAF-T-LOK has energized the patent technology and development work of acquisition companies that pioneered this field as far back as 1962 in a metamorphosis to the young, fast growing and responsive company that it is today.



# QUALITY POLICY

SAF-T-LOK International Corporation was founded upon a commitment to manufacture the highest Quality Adhesive/Sealants and to provide Service Excellence.

Each employee is dedicated to not only meet but to exceed customer expectations. Our quality goal is 100 percent on time delivery of performance specification products that demonstrate no process variability for our customers.

SAF-T-LOK is committed to remain on the leading edge of technological development, and to apply this science to provide the greatest value in products and support for customers.

Flexibility and a sense of urgency to customer needs will be maintained, thus building long term partnerships with customers.



## SAF-T-LOK® INTERNATIONAL CORPORATION



# THREADLOCKING

Developed from the latest technology, SAF-T-LOK thread locking adhesives are designed to provide performance characteristics that others only talk about. SAF-T-LOK has been the primary supplier of threadlockers to the Space Program and the US Military as well as leading edge industries. SAF-T-LOK Anaerobic Adhesive/Sealants reliably lock and seal metal assemblies in a wide range of applications. Anaerobic products cure to a tough resilient plastic shim in the absence of air and presence of metal. By safely holding components they eliminate loosening and costly breakdowns and damage to equipment from vibration and shock, thus providing a SAF-T factor in engineering design.

Selection of the correct grade will:

- Reduce product assembly cost
- Prevent part loosening
- Eliminate fluid leakage
- Assure removability
- Improve equipment reliability

SAF-T-LOK thread locking adhesives are provided in a broad range of strengths and viscosities. The following is a tabulation of the general purpose threadlocking adhesives including key properties:



## PROPERTIES & BENEFITS

### T42—Medium Strength/Removable

- Fast cure and oil tolerant
- Locks nuts and screws
- Seals medium size threaded parts
- Remove with normal tools
- Holds torque tension specs
- Prevents vibration loosening
- Chemical resistant
- Prevents keyway backlash

### T43—Medium Strength/Removable (Thicker than T42)

- Does not migrate on parts
- Fast cure and oil tolerant
- Locks nuts and screws
- Seals medium size threaded parts
- Remove with normal tools
- Holds torque tension specs
- Prevents vibration loosening
- Chemical resistant

### T22—Low Strength/Adjustable

- Does not migrate on parts
- Holds small nuts and screws
- Seals medium size threaded parts
- Remove with normal tools
- Holds torque tension specs
- Low strength for longer threads
- Allows screw adjustment

### T62—High Strength

- Locks studs, nuts and bolts
- Does not migrate on parts
- Fast cure and oil tolerant
- Only removable with heat
- Holds torque tension specs
- Prevents vibration loosening
- Chemical resistant

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## Tested per ML-S-46163 or ASTM D5363

Typical Properties	T22	T42	T43	T62	T70	T72	T77
Viscosity	1200 Thixotropic	1800 Thixotropic	5000 Thixotropic	2000 Thixotropic	500	8000	7000
Gap Filling	.005	.006	.008	.008	.008	.010	.010
Torque Strength (in.lb.) 3/8-16 steel cleaned							
Breakaway	50	150	150	200	300	245	265
Prevailing	30	50	50	110	285	200	200
Cure Time with Primer T							
Fixture (min.)	5	5	5	5	5	5	5
Cure (hr.)	1	1	1	1	2	5	2
Cure Time without Primer							
Fixture (min.)	30	5	5	20	60	60	60
Cure (hr.)	6	4	4	8	8	24	24
Lock Shear (psi)	600	1200	1200	2500	3500	2500	2500
Temperature Limit (°F)	350	350	350	350	350	450	350
Technical Data Sheet for complete info.	T22	T42	T43	T62	T70	T72	T77

SAF-T-LOK threadlocking adhesives fill the inner space between metal parts. The clear parts shown in this brochure provide a visual of the products in service.

A complete line of products to meet Military Specifications MIL-S-22473 and MIL-S-46163 as well as ASTM D5363 are available with Certificates of Conformance.

Available packaging of SAF-T-LOK Products by item number is shown on page 24.

**T70—High Strength/Permanent**

- Locks studs to 1/2" diameter
- Very chemical resistant
- Eliminates vibration loosening
- Only removable with heat
- High break & prevailing strength
- Seals against corrosion

**T72—High Temperature**

- Locks studs, nuts and bolts
- Does not migrate on parts
- Only removable with heat
- Holds torque tension specs
- Prevents vibration loosening
- Chemical resistant

**T77—High Strength/Thick**

- Locks studs over 1/2" diameter
- Very chemical resistant
- Eliminates vibration loosening
- Only removable with heat
- Seals against corrosion
- Gasket sealant to .005"

**SAF-T-LOK Military & ASTM Specifications for Threadlocking, Retaining & Sealing**

MIL-S-46163 Classification	SAF-T-LOK Product	ASTM D5363 Classification	MIL-S-22473	SAF-T-LOK	ASTM D5363
<b>Type I</b>			Grade A	A	AN0121
Grade J	T41	AN0231	Grade AA	AA	AN0111
Grade K	T70	AN0221	Grade AV	AV	AN0123
Grade L	T77	AN0211	Grade AVV	AVV	AN0124
<b>Type II</b>			Grade B	B	AN0131
Grade M	T22 Thixotropic	AN0311	Grade C	C	AN0141
Grade N	T42 Thixotropic	AN0321	Grade CV	CV	AN0142
Grade O	T62 Thixotropic	AN0331	Grade CVV	CVV	AN0143
<b>Type III</b>			Grade D	D	AN0122
Grade R	S90	AN0261	Grade E	E	AN0151
<b>MIL-R-46082</b>	<b>SAF-T-LOK</b>	<b>ASTM D5363</b>	Grade EV	EV	AN0152
Type I	R01	AN0411	Grade H	H	AN0161
Type II	R41	AN0412	Grade HV	HV	AN0162
Type III	R80	AN0421	Grade HVV	HVV	AN0163
			Grade JV	JV	AN0171

# RETAINING

Industry has come to accept the performance advantage offered by anaerobic retaining compounds as well as the cost savings that result.

A complete line of Anaerobic products satisfying Military Specifications MIL-R-46082B are available with certification. Similarly, SAF-T-LOK products meet the requirements of ASTM D 5363 and D5462.

SAF-T-LOK retaining adhesives are provided in a broad range of strengths and viscosities. The following is a tabulation of the general purpose retaining adhesives including key properties:



## PROPERTIES & BENEFITS

### R01—General Purpose

- Fast cure
- Low viscosity
- High strength
- Use for field repair
- Excellent chemical resistance
- Prevents fretting corrosion
- High load transmission

### R20—High Temperature

- High viscosity for gaps to .015"
- Continuous service -100° to 400°F
- High load transmission

### R38—Ultimate Performance

- Fast cure
- High viscosity
- High strength
- Large gap filling to .020"
- Excellent chemical resistance
- High load transmission
- Bushing bonder



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### Tested per MIL-R-46082 or ASTM D5363

Typical Properties	R01	R20	R38	R41	R48	R80	R82
Viscosity	125	7000	1500	600	400	1500	1500
Gap Filling	.005	.015	.020	.006	.010	.010	.050
Torque Strength (in.lb.) 3/8-16 steel cleaned							
Breakaway	300	300	350	250	350	300	250
Prevailing	375	350	450	250	450	300	250
Cure Time with Primer T							
Fixture (min.)	5	20	10	20	10	20	20
Cure (hr.)	1	6-12	1-6	6-12	1-6	6-12	6-12
Cure Time without Primer							
Fixture (min.)	20	60	20	20	20	60	60
Cure (hr.)	6	24	24	24	24	24	24
Lock Shear (psi)	3000	3000	4000	3000	4000	3000	2500
Temperature Limit (°F)	350	400	350	350	350	350	350
Technical Data Sheet for complete info.	R01	R20	R38	R41	R42	R80	R82

Shear strength data is generated on 1/2" diameter degreased steel pins and collars per ASTM D4562 or ISO-10123.



SAF-T-LOK retaining products fill the **inner space** between metal parts. The clear parts shown in this brochure provide a visual of the products in service.

### **R41—Bearing Mount**

- Medium strength
- Medium viscosity
- Removable with standard pullers
- Good chemical resistance

### **R42—Performance Grade**

- Very High Strength
- Medium viscosity
- Fast cure
- High gap filling to .010"
- Excellent chemical resistance

### **R80—Alignment Grade**

- High strength
- High viscosity
- Large gap filling to .010"
- High load transmission
- Excellent chemical resistance

### **R82—Low Strength**

- Lower strength
- High viscosity
- Removable with standard tools
- Good chemical resistance



# GASKETING

PFS replaces most conventional gaskets on metal surfaces. It cures in the absence of air and will not shrink, tear or crack and provides maximum face to face contact of mated parts. PFS Gasket provides an instant seal at low pressures and fully cures in 1 to 8 hours depending upon part configuration and clearance. No retorquing of flange bolts is required as stress relaxation of this Polymeric Flange Sealant does not occur and face to face contact of the metal surfaces makes this unnecessary.

## PFS—Polymeric Flange Sealant

- Yellow—General Purpose
- Replaces gaskets
- Fills gaps to .05"
- Non-shrinking
- No retorquing required
- Remains semi-flexible
- Removal with normal tools
- Chemical and fluids resistant
- Also use with existing gaskets

## PFS—Polymeric Flange Sealant

- Red—High Viscosity
- Replaces gaskets
- Fills gaps to .05"
- Non-shrinking
- No retorquing required
- Remains semi-flexible
- Removal with normal tools
- Chemical and fluids resistant
- Also use with existing gaskets

## PFS—Polymeric Flange Sealant

- Blue—for Aluminum parts
- Replaces gaskets
- Fills gaps to .05"
- Non-shrinking
- No retorquing required
- Remains semi-flexible
- Removal with normal tools
- Chemical and fluids resistant
- Also use with existing gaskets



Available packaging of SAF-T-LOK Products by item number is shown on page 24.

See Technical Data Sheets for detailed product performance characteristics.

SAF-T-LOK sealing materials fill the **INNER SPACE** between metal parts. The clear parts shown in this brochure provide a visual of the products in service.



## PIPE SEALING

SAF-T-LOK TPS PTFE Pipe Sealant cures on black iron, galvanized and stainless steel pipe as well as monel and other inactive metals. TPS provides an instant seal on tapered pipe joints, and when fully cured, locks joints against vibration, forming a non-shrinking seal against leaks to the burst strength rating of the pipe. These products also cure to provide a seal on non-tapered threaded fittings. The PTFE particles provide a "one way" lubricating action during assembly to prevent galling. The seal is impervious to most chemicals, solvents, gasses, and many industrial acids. Fittings can be disassembled with normal wrenches. This product bears the highest classified pipe sealant rating from Underwriters Laboratory.

### TPS- PTFE Pipe Sealant

- PTFE lubricated assembly
- Instant seal on tapered pipe
- Low Odor
- Quick clean-up of clothes
- Cure delayed 4 hrs. for adjustment
- Full cure in 8 hrs.
- Easy breakaway
- Non-thickening at low temp
- Chemical resistant

### TPS-Industrial Pipe Sealant

- PTFE lubricated assembly
- Instant seal on tapered pipe
- Low Odor
- Easy breakaway
- Non-thickening at low temp
- Does not attack paint
- Chemical resistant

### Food/Drug Pipe Sealants also available



### TPS#2-Industrial Pipe Sealant

- PTFE lubricated assembly
- Thicker for larger pipe
- Low Odor
- Cure delayed 8 hrs. for adjustment
- Non-thickening at low temp
- Does not attack paint
- Chemical resistant

### TPS#3-Industrial Pipe Sealant

- PTFE lubricated assembly
- Higher strength for non-tapered pipe
- Low Odor
- Cure delayed 8 hrs. for adjustment
- Easy breakaway
- Non-thickening at low temp
- Does not attack paint
- Chemical resistant



## PRE-APPLIED SEALANTS

### S03 - Preapplied for Tumbling

- White-High viscosity
- Instant sealing
- Temp. range -65° to 300° F
- Non-curing

### S17 - Preapplied for Dispensing

- Orange- high viscosity
- Instant sealing
- Temp. range -65° to 300° F
- Non-curing



# THREAD SEALING

SAF-T-LOK Anaerobic products act as sealing compounds hardening in voids, thread gaps or between cylindrical parts and seal against leakage of fluids or gasses under high pressure or severe vibration. These products were formulated for a variety of applications and specifically to improve customers equipment performance.

## PROPERTIES & BENEFITS

### S90—Penetrating—Wicking

- Medium strength-Low viscosity
- Seals welding porosity
- Seals casting porosity
- Post apply to fine threads
- Ideal for adjustment screws
- Fast cure

### HS—Hydraulic Sealant

- Low strength
- Excellent oil and fuel resistance
- Disassembles with normal tools
- Designed for hydraulic systems
- Seals synthetic fluids
- No particles to clog orifices
- Withstands high pressure
- Fast cure

### PS—Pneumatic Sealant

- Medium strength
- High viscosity
- Designed for pneumatic systems
- Withstands high pressure
- No particles to clog orifices
- Locks threads against vibration
- Disassembles with normal tools



### RS—Refrigerant Sealant

- Designed for refrigeration systems
- High strength
- High viscosity
- Vibration resistant
- Chemical and refrigerant resistant.
- Performs from -100°F to 350°F

### CP—Core Plug Sealant



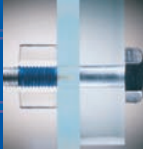

- Withstands fluid pressure
- Freeze thaw stable
- Positive seal
- Motor oil and fluid resistant
- Fast cure






Tested per ML-S-46163 or ASTM D5363

Typical Properties	S90	PS	HS	RS	CP	S03	S17
Viscosity	20	5000	1000	7000	8000	7000	7000
Gap Filling	.004	.010	.010	.010	.015	.010	.010
Torque Strength (in.lb.) 3/8-16 steel cleaned							
Breakaway	100	60	90	265	265	25	25
Prevailing	200	40	60	200	300	20	20
Cure Time with Primer T							
Fixture (min.)	5	10	10	5	10	-	-
Cure (hr.)	1	2	2	2	2	-	-
Cure Time without Primer							
Fixture (min.)	10	4	4	20	60	-	-
Cure (hr.)	6	4	8	8	8	24	24
Lock Shear (psi)	1500	600	1200	2500	2000	200	200
Temperature Limit (°F)	350	350	350	350	350	300	300
Technical Data Sheet for complete info.	S90	PS	HS	RS	CP	S03	S17

# SELECTION CHART

THREADLOCKING		STRENGTH	Viscosity cps	Screw Size	Cure time in hours @ 25°C/75°F	Temperature Limit	
T20 FINE SCREW LOCK		LOW ADJUSTABLE	100	Small Screws	24	350°F	
Holds screws and seals, allows adjustment w/o loss of strength							
T22 SCREW LOCK		LOW ADJUSTABLE	1,200	Under 1/4"	6	350°F	
Holds screws and seals, allows adjustment w/o loss of strength							
T41 BEARING MOUNT		MEDIUM REMOVABLE	125	1/4" to 3/4"	24	350°F	
Secures and seals nuts, bolts, and keyways but allows for disassembly.							
T42 NUT LOCK		MEDIUM REMOVABLE	1,800	1/4" to 3/4"	4	350°F	
Secures and seals nuts, bolts, and keyways but allows for disassembly.							
T43 NUT LOCK		MEDIUM REMOVABLE	5,000	1/4" to 3/4"	4	350°F	
Secures and seals nuts, bolts, and keyways but allows for disassembly.							
T62 STUD LOCK		HIGH PERMANENT	2,000	1/4" to 3/4"	8	350°F	
Permanently locks and seals studs, nuts and bolts.							
T70 STUD LOCK		HIGH PERMANENT	500	1/4" to 1"	8	350°F	
Permanently locks and seals studs, nuts and bolts.							
T72 HI-TEMP		HIGH PERMANENT	8,000	Large Fasteners	24	450°F	
Permanently locks and seals studs, nuts and bolts.							
T77 BIG STUD LOCK		HIGH PERMANENT	7,000	Large Fasteners	24	450°F	
Permanently locks and seals studs, nuts and bolts.							

## SEALING

S90 WICKING SEALANT PENETRATING SEALANT		MEDIUM	20	Under 1/4"	6	350°F
Wicks into pre-assembled fasteners to lock fine screws in place. Penetrates porous welds and castings to seal against leakage.						
HS HYDRAULIC SEALANT		LOW	1,000	Hydraulic Fittings	8	350°F
Seals and locks hydraulic and pneumatic connections, fuel and braking systems.						
I-TPS PIPE SEALANT		LOW HOLDS	450,000	NPT Pipe	4	500°F
Seals gasketing systems for metal-to-metal flanges.						

## GASKETING

				Gap Filling mm		
PFS GASKET MAKER BLUE		LOW FLEXIBLE	500,000	0.05	12	300°F
Seals gasketing systems for metal-to-metal flanges.						
PFS GASKET MAKER RED		LOW FLEXIBLE	1,000,000	0.05	12	300°F
Seals gasketing systems for metal-to-metal flanges.						

## RETAINING

R01 PRESS FIT		VERY HIGH SECURE	125	0.005	6	350°F	
Retains cylindrical assemblies, e.g. Gears, pulleys and bushings.							
R20 HI-TEMP		VERY HIGH SECURE	7,000	0.015	24	400°F	
Retains cylindrical assemblies, e.g. Gears, pulleys and bushings.							
R38 ALIGNMENT		VERY HIGH SECURE	1,500	0.020	24	350°F	
Retains cylindrical assemblies, e.g. Gears, pulleys and bushings.							

See specific product page for more detail

# PRIMERS, ACCELERATORS, CLEANERS, ACTIVATORS, MAINTENANCE KITS, ETC.

SAF-T-LOK offers a complete line of Primers, Accelerators, Surface Conditioners and Activators as well as Cleaners to insure ultimate performance from the broad line of SAF-T-LOK Engineered Adhesives and Sealants.

As a partner in "Responsible Care" SAF-T-LOK employees are committed to preserving the environment and include alternative products that are free of all Class 1 ozone depleting components.

## Primers

Primer speeds cure of Anaerobic adhesives particularly in cold conditions and on less active surfaces such as cadmium and zinc.

These products also meet the requirements of MIL-S-22473 and can be provided in liquid as well as aerosols. Both grade N and T are available in solvent as well as solventless form.

## Cleaners

Proper surface preparation will generally improve bond strength. Removal of surface dirt may even require mechanical abrasion.

## Accelerators

Accelerators speed the cure and increase the gap filling of Instant Bonders. Within a few seconds cure is complete.

## Surface Conditioner

Surface ionization pretreatment is necessary to affect best results with Instant Bonders on non-polar plastic surfaces such as polyethylene or polypropylene. SAF-T-LOK Surface Conditioner does the job.

## Debond

After an Instant Bonder has been used and removal or repositioning is necessary, immersion for a few minutes in Debond will soften the adhesive and allow removal.

Solvent-degreasers may also be necessary to remove a residual surface film from the manufacturing process. SAF-T-LOK offers a variety of cleaners for ultimate performance.

## Activators

Activators are the second cure component of Structural Adhesives and within a few minutes of assembly parts reach fixture strength.

## Maintenance Kits

A selection of kits for recurring tasks are available including: Wire tacking, Bearing Mounting, "O" Ring Splicing, and Gasketing. See price schedules for items included.



Products are tabulated showing the Type Adhesive used and the solvents contained by Product Number

Product	Primer	Accelerator	Surface Cond.	Debond	Cleaner	Activator
Adhesive Type	Anaerobics	Instant Bonder	Instant Bonder	IB	All	Structurals
<b>Solvent Used</b>						
Acetone	190	462	-	461	-	-
Hydrocarbon Blend	-	-	463	-	182	390
Non-Solvent	192	-	-	-	-	391
Methylene Chloride	-	-	-	-	-	180

SAF-T-LOK Solventless Primer 192 and Activator 391 offer an easy and effective way to solving environmental, health safety and reliability problems inherent in products containing chlorinated or conventional hydrocarbon type solvents. Solventless Primer cleans parts and speeds the cure of adhesives. This product provides a substantial increase in product strength as well. Refer to the Product Technical Data Sheets. Flushing Solvent (Methylene Chloride) is also available, see page 11.

# RTV SILICONE



## PROPERTIES & BENEFITS

### 732—RTV Silicone Sealant - Clear, White, Blue, Black, Aluminum

- Replaces gaskets, makes fillets
- Fills gaps to .125"
- Interior or exterior use
- Remains flexible
- Chemical and fluids resistant
- Also use with existing gaskets
- Performs from -60° to 450°F
- Available in Clear, White, Black, Blue, Aluminum

### 732—RTV Hi-Temp Sealant - Red

- Replaces gaskets, makes fillets
- Fills gaps to .125"
- Interior or exterior use
- Remains flexible
- Chemical and fluids resistant
- Also use with existing gaskets
- Performs from -60° to 650°F

### 732—RTV Neutral Cure Sealant Clear, Black

- Low odor - Oxime cure
- Replaces gaskets, makes fillets
- Fills gaps to .125"
- Interior or exterior use
- Remains flexible
- Chemical and fluids resistant
- Also use with existing gaskets.
- Oxygen sensor safe

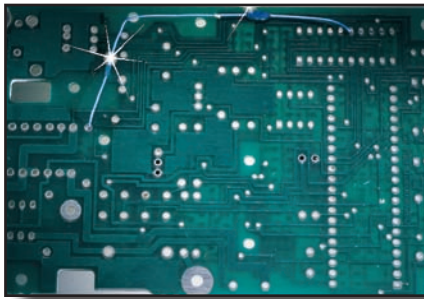


# INSTANT BONDING

SAF-T-LOK Instant Bonder cyanoacrylate adhesives provide exceptional tensile shear strengths within seconds at room temperature. Materials such as metals, plastics, rubber and glass may be bonded with these single part adhesives. Both Ethyl and Methyl products are available and meet MIL-A-46050C and CID A-A-3097.

General properties of the primary Instant Bonder line are shown below, but see IB Technical Data Sheets for detailed properties of these products. Refer to page 11 for Accelerators, Debonder, Surface Conditioner and Cleaners.

Available Packaging of these products and IB20, IB300, IB600 as well as Accelerators etc. by Item No. are shown on Page 25.



## IB5—Penetrating

- Fast cure
- High strength
- Low viscosity
- Penetrating for post application
- Wicking 360° circumference

## IB45—General Purpose

- Fast cure
- High strength
- Low viscosity
- Bonds rubber, metal, plastics
- Close fitting parts

## IB100—Plastic Bonder

- Fast cure
- Weather resistant
- Medium viscosity
- Compensates for irregularities

## IB1500—Gap Filling

- Slower cure
- High viscosity
- Porous surfaces
- Poorly mated parts
- Bonds rubber, metal, plastics

## IB—Hi-Temp

- Fast cure
- Temperature resistant to 300°F
- Medium viscosity
- Compensates for irregularities

## IB—Gel

- Gap filling
- All surfaces
- No-run
- Vertical surface application

## IB Black— Impact

- Black color
- High viscosity
- Good shock/impact resistance

## IB Surface Insensitive

- Rapid cure
- Medium viscosity
- Flexible EPDM bonds

## IB—Non-Frosting

- Fast cure
- Low blooming
- Medium viscosity
- Low odor

## IB—101

- “O” Ring bonder
- Fast cure
- High Strength



Typical Properties	IB-5	IB-45	IB-100	IB-1500	IB-2500	IBM-5	IBM-45	IBM-100	HI TEMP	BLACK
Chemical Type	Ethyl	Ethyl	Ethyl	Ethyl	Ethyl	Methyl	Methyl	Methyl	Ethyl HB	Ethyl
Viscosity (cps) Brookfield at 77°F	5	45	100	1500	2500	5	45	100	100	2500
Specific Gravity	1.05	1.05	1.06	1.06	1.06	1.10	1.09	1.08	1.08	1.10
Flashpoint COC (°F)	185	185	185	185	185	167	167	167	185	185
Vapor Pressure at 70°C. mm Hg	8	8	8	8	8	10	10	10	8	8
Melting Point	365	365	365	365	365	400	400	400	370	365
Service Temperature Range, °F	-114 to +180	-114 to +180	-114 to +180	-114 to +180	-114 to +180	-114 to +180	-114 to +180	-114 to +180	-114 to +300	-114 to +210
Tensile Shear Strength Steel/Steel, lbs/in <sup>2</sup>	4000	4700	4000	4000	4000	5000	5000	5000	3500	4000
Impact Strength Steel/Steel, lbs/in <sup>2</sup>	3-5	7-14	3-5	3-5	3-5	3-6	3-6	3-6	8-12	15-25



# STRUCTURAL ADHESIVE

SAF-T-LOK Structural Adhesives are designed to satisfy the demands of industry for large gap filling, high impact, and shock resistance bonds. They conveniently dispense and cure with activators, UV light sources, or heat. This series of products begins where the Instant Bonders leave off. SAF-T-LOK Structural Adhesives provide high strength bonds on oily surfaces, on porous surfaces, and on surfaces with large gaps in between. They have excellent shock resistance as well as higher temperature tolerance and greater chemical resistance

## PROPERTIES & BENEFITS

### SA-5 General Purpose

- Fast cure with activator, 5 min. fix
- High tensile shear strength
- High shock/impact resistance
- High gap filling to 0.07 in.
- Bonds through oil
- Excellent chemical resistance

### SA-24 Magnet Bond

- Good gap filling
- Fast cure with Activator
- High tensile shear strength
- High shock/impact strength

### SA-26 Gap Filling

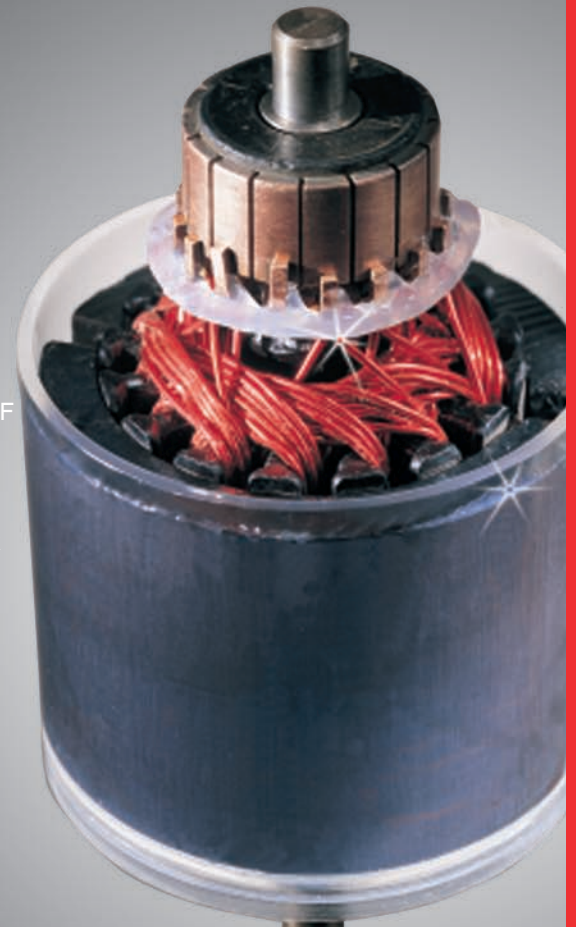
- Highest gap filling
- Fast cure with Activator
- High tensile shear strength
- High shock/impact strength

### TRI-CURE UV Adhesive

- Good bridge bonding
- Good potting
- Fast cure with Activator
- Heat curing 15 min. at 300°F

### TRI-CURE II UV Adhesive

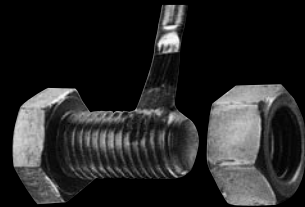
- Resilient bonds
- Resists vibration and shock
- Thixotropic



SAF-T-LOK adhesive products fill the **INNER SPACE** between metal parts. The clear parts shown in this brochure provide a visual of the products in service.

Typical Properties	SA-5	SA-24	SA-26	TRICURE	TRICURE II	TRICURE III	HEAT SINK
Color	Amber	Amber	Amber	Amber	Amber	Amber	Silver
Viscosity (cps at 12 rpm)	5,000	15,000	30,000	3,000	20,000	300	20,000
Specific Gravity	1.10	1.10	1.00	1.05	1.00	1.10	1.10
Shear Strength	3,500	3,500	2,500	3,000	2,500	3,000	3,500
Service Temperature (°F)	285	350	350	400	400	425	350
Impact Strength	30	30	20	30	20	15	20
Gap Filling (inches)	0.070	0.025	0.025	0.250	0.250	0.250	0.020

# SAF-T-EZE®



## HI-TEMP Anti-Seize and EXTREME PRESSURE Lubricating Compound



Water Washout Resistance

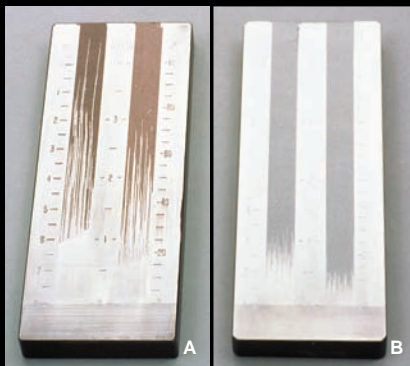


Clean-Hands Pumper



High Temperature Protection to 2000°F  
Exceeds MIL-A-907

Rediscover the cost savings that come from using the highest quality materials to do assembly and maintenance work. Use SAF-T-EZE Anti-Seize for Ultimate Protection and be assured you can take things apart Safely - with Ease. SAF-T-EZE Anti-Seize is compounded from fine metallic particles and graphite in a heat resistant lubricant. This combination results in extreme pressure lubricating properties that prevent galling and cold welding, and at the same time resist water wash out or galvanic pitting and corrosion from road salt, acid rain or salt water. SAF-T-EZE Anti-Seize compounds do not cake or coke. Particles present will not evaporate at extreme temperatures and their heat resistant properties prevent carbon fusion and seizure to temperatures of 2600°F. SAF-T-EZE Anti-Seize compounds provide maximum bolt tension from minimum wrench torque. In fact, at least 20 percent less torque is required to get the prescribed tension than with dry parts.



With Regular, Copper or Nickel you get uniform bolt tension and substantial release torque that must be overcome for parts to be disassembled. It is essential that Anti-Seize products be produced from uniform fine flake shaped particles to permit continuous coating of metal surfaces and to prevent anti-seize wipe-off during assembly by large particles as shown with some competitive products in comparison in photos. To determine this particle size relationship, products are spread on a Hegman particle size gauge and drawn down an ever finer groove. Inferior products in photo A are spread to show how poorly they cover and protect metal surfaces. The inferior product wipes-off protective lubricants. On the other hand, products produced from particles that are too fine such as shown on the right in "B" will act as ball bearings and retain little or none of the preapplied torque. They may loosen under vibration. Products with too little solids will seize.

## PRIMARY ANTI-SEIZE

### Regular Grade Anti-Seize

Produced from copper, aluminum and graphite. It has thousands of applications but the primary contribution to performance lies in the ability to resist corrosion. Even in the presence of strong chemicals such as caustic solutions, and acids including dilute sulphuric, hydrochloric and nitric a quality Anti-Seize will continue to resist galvanic attack by sacrificing the metals in the anti-seize in preference to the metal parts under protection.

- Protects against rust and corrosion
- Speeds assembly and disassembly
- Resists seizing and corrosion
- Prevents cold welding and carbon fusion
- Resists salt water and acid rain corrosion
- Non-hardening
- Performs to 2000°F

### Copper Grade Anti-Seize

Produced from copper, and graphite. The properties are similar to Regular Anti-Seize, but without the aluminum present the copper color is apparent. The aluminum in Regular Grade provides greater corrosion resistance.

- Protects against rust and corrosion
- Speeds assembly and disassembly
- Resists seizing and corrosion
- Prevents cold welding and carbon fusion
- Resists salt water and acid rain corrosion
- Non-hardening
- Performs to 2000°F

### Nickel Grade Anti-Seize

Compounded from fine particles of nickel, aluminum and graphite in a heat resistant lubricant and performs particularly well as nickel is a hard metal and keeps surfaces apart even under high pressure. It is recommended when very different metals are used together such as brass and steel or where high alloy steels such as stainless are involved. Nickel is also used where active metals such as copper cannot be present, and it performs to 2600°F.

- Prevents galvanic action between dissimilar metals
- Does not contaminate catalyst systems
- Compatible with high chromium steels eg. stainless
- Performs to 2600°F
- Speeds assembly and disassembly
- Protects against rust and corrosion
- Non-hardening



## STOP

• GALLING • CORROSION • SEIZURE

SPEED ASSEMBLY AND PREVENT RUST AND OTHER CORROSION  
AS WELL AS COLD WELDING OR CARBON FUSION PROTECTION TO 2600°

## SAVE

• MAINTENANCE EFFORT • EQUIPMENT DAMAGE • PRODUCTION DOWN TIME

# SPECIALTY ANTI-SEIZE

## Nuclear Grade Anti-Seize

Formulated from the highest purity grease to minimize sulphur, halogens, mercury, etc. Nickel, Stainless and Copper Grades are available. These products exceed the requirements of General Electric, Bechtel and Westinghouse. Certificates of conformance are included.

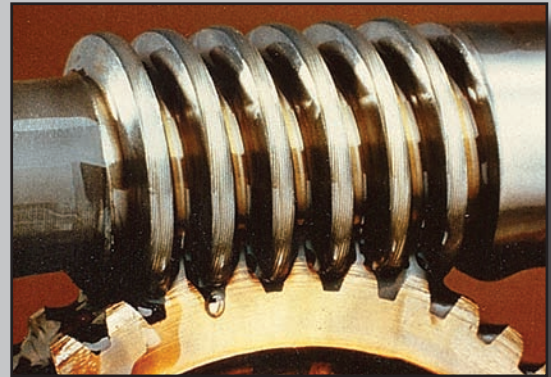


## Food/Drug Grade Anti-Seize with PTFE

Formulated to meet rigorous FDA/USDA requirements. It is odorless, tasteless, non-staining and is corrosion resistant to 500°F. This superior product prevents galling on threaded joints and metal wear surfaces and performs particularly well on stainless steel.

## Moly Grade Anti-Seize

Compounded with Molybdenum Disulfide for extreme pressure applications. This low friction lubricant even prevents wear or galling on gears or splines operating under high load at low speed. In fact, Moly Grade Anti-Seize will withstand pressures to 0.5 million psi and perform to 650°F. Moly Grade is not recommended where moisture is present and high temperatures are encountered.



## Marine Grade Anti-Seize

Compounded from fine flaked particles of copper, aluminum and graphite solid lubricants combined with a water wash out resistant carrier. This product offers superior corrosion resistance particularly in salt water. It is recommended particularly for marine applications, including the assembly and maintenance of threaded and press fit metallic parts.



## Blue Moly Grade Anti-Seize

Compounded from fine particles of molybdenum disulfide, nickel, aluminum and graphite solid lubricants combined with a broad temperature range carrier. It is easy to apply even at subzero temperatures. This formula is copper free and is an excellent choice for applications on parts made with dissimilar metals. Recommended for the assembly and maintenance of threaded and press fit metallic parts on industrial applications, including heavy equipment, chemical plants and oil refineries.



## SPECIALTY ANTI-SEIZE (Continued)

### **Stainless Steel Anti-Seize**

Compounded from fine particles of stainless steel, aluminum and graphite solid lubricants combined with a broad temperature range carrier. This formula is also copper free and is an excellent choice for applications on parts made with dissimilar metals. Suitable for applications on parts made of steel, stainless steel, and titanium. Especially well suited for small parts applications.

### **SAF-T-EZE Graphite Grade Anti-Seize**

Compounded from graphite and petroleum to satisfy the requirements of MIL-T-5544 for use on threaded joints.

### **SAF-T-EZE Zinc Grade Anti-Seize**

Formulated from zinc and petroleum to meet MIL-T-22361 requirements for use on threaded steel parts assembled in aluminum or zinc castings.



Certificates of conformance are available for each batch.

### **Heavy Metal Free Anti-Seize**

Superior high temperature and extreme pressure anti-seize. containing graphite, calcium fluoride and aluminum in a high temperature grease with corrosion inhibitors. It is used where heavy metals such as nickel and copper cannot be present.

### **Non-Metallic White Anti-Seize**

Contains extremely fine particle size calcium fluoride and other solid lubricants in a broad temperature range carrier. This product is free of Nickel, Copper and other heavy metals and is also an excellent choice for applications on parts made with dissimilar metals. It is White and a very smooth, homogeneous blend suitable for applications on parts made of steel, stainless steel, and titanium.

## SPECIALTY MAINTENANCE PRODUCTS



### **Metal Assembly Paste**

Specifically formulated for parts run-in, as a press fitting lubricant on parts during assembly and break-in. Applications include run-in of gears, splines, journal bearings, cams; reducing torque in tightening threads; lubricating bearing shafts, packing seals, and brake assemblies.

### **SAF-T-EZE Pipe-Seal paste**

Compounded with PTFE to lubricate joint assembly. It is resistant to chemicals and can be used on pipes larger than 3/4" diameter to seal kerosene, LP gas, oil, water, weak caustic acids and low pressure steam. It will not run, drip or separate and will withstand moderately high pressure and performs to 500°F. When rubber is present Fine Pipe-Seal is recommended.

### **Gasket 1, 2 Sealants**

Are also available as well as gasket 5, a neoprene based adhesive.

## SPECIALTY LUBRICANTS



### Extended Life Bearing Lubricant

A multipurpose high performance grease that exhibits superior high temperature stability to as high as 350°F for intermittent use. This grease has been compounded for high as well as low speed bearings and provides 70 percent longer service than conventional greases.

### Hi-Temp Bearing Lubricant

Is a bentone grease into which fine graphite flakes are compounded for dry film lubrication. This product will perform to 750°F intermittent temperature, well above normal greases if used on high or low speed ball or roller bearings, bushings and sealed bearings as well as universal joint slides.

### Di-Electric Silicone Grease

Silicone fluid thickened with inert silica filler that exhibits superior di-electric properties. It is nonmelting, moisture resistant and possesses low volatility.



### General Purpose Silicone Lube Compound

is a silicone fluid thickened with inert silica filler that exhibits superior di-electric properties as well as high temperature stability to as high as 450°F for intermittent use. This grease has been compounded to be non-melting, moisture resistant, and possess low volatility. It is odorless and provides excellent oxidation as well as chemical resistance.

Primary uses include release and parting agent, electrical insulator and sealant, rubber and plastic lubricant or protective coating and valve lubricant.

## MAINTENANCE AEROSOLS (Packaged in 16 oz cans)



**Contact-Clean** is a hydrocarbon blend designed to remove carbon deposits, grease, oil and excess corrosion on electrical equipment. After cleaning, check and oil parts that need lubrication. Eliminates noise caused by dust and dirt.

**Dry-Moly** is a lubricant system that air dries and bonds molybdenum disulfide particles for extreme pressure service.

**T-Gel Lube** is a transparent penetrant with long lasting PTFE lubricating properties that is resistant to water washout.

**Pen-Oil** is a hydrocarbon based compound formulated with low surface tension to allow it to penetrate accumulated grease and grit deposits as well as rust and other forms of corrosion to permit easy disassembly of parts. It clings to metal and forms a protective film against rust and other corrosion.

**Silicone-Lube** is a high temperature lubricant produced from quality silicone fluids to perform where hydrocarbon oils vaporize. It does not gum up after exposure as hydrocarbons do. It provides tack free lubrication from -60°F to +500° F. Food Drug Grade is clean, odorless, and meets the requirements of FDA/ USDA.

**Gasket-Off** is compounded from methylene chloride with hydrocarbon thickeners and propellants which disperse as a foamy white cream to remove baked-on gaskets, gasket cement, carbon deposits, dried oils, greases, and paint from metal in 10 minutes. Not recommended on some plastics.

**Belt-Dress** is formulated to meet industrial demand for increased operating efficiency and longer belt life. It reduces stiffness and restores flexibility to worn and checked belts.

# SELECTION CHART

PRIMARY ANTI-SEIZE	Temp. °F (°C) Resistance	Color	Particle Size (Microns) μ	"K" Value	Specific Gravity	Percent Solids
Regular	2000 (1095)	Silver	32	0.16	1.2	40
Pure Copper	2000 (1095)	Copper	30	0.16	1.1	36
Nickel	2600 (1425)	Silver	34	0.15	1.2	40

## SPECIALTY ANTI-SEIZE

Nickel Premium	2600 (1425)	Silver	28	0.15	1.3	42
Nuclear Nickel	2600 (1425)	Silver	34	0.15	1.2	40
Nuclear Copper	2000 (1095)	Copper	30	0.16	1.1	36
Food Drug	500 (260)	White	25	0.13	1.1	24
Moly Grade	650 (340)	Black	32	0.13	1.4	50
Moly 50	650 (340)	Black	32	0.13	1.4	50
Blue Moly	1500 (815)	Blue-Grey	35	0.13	1.2	38
Marine	2000 (1095)	Silver	32	0.16	1.2	40
Stainless Steel	2500 (1370)	Silver	30	0.17	1.3	44
Graphite Petro	6500 (3595)	Black	35	0.13	1.2	50
Zinc Petro	750 (400)	Silver	20	0.15	1.2	42
Heavy Metal Free	2500 (1370)	Silver	35	0.15	1.2	40
Assembly Paste	650 (340)	Black	32	0.13	1.4	50
Non-Metallic	2000 (1095)	White	34	0.17	1.2	42

## SPECIALTY LUBRICANTS

HT Bearing Lube	700 (370)	Black	35	0.13	1.0	24
E.P. Lube	350 (175)	Red	10	0.09	0.9	8
Extended Life Lube	350 (175)	Red	10	0.11	0.9	8

All Products pass corrosion test ASTM D4048-02  
Flash Points are all above 250° F

# HI-TEMP Anti-Seize and EXTREME PRESSURE Lubricating Compound

## FRICITION FACTORS

### TORQUE EQUATION: $FT/KxD$

**F = Force of Bolt Load (Tension)**

**T = Torque**

**D = Nominal Diameter**

**K = "K Factor"**

SAF-T-EZE Anti-Seize compounds provide maximum bolt tension from minimum wrench torque. In fact, at least 20 percent less torque is required to get the prescribed tension than with dry parts. With Regular, Copper or Nickel you get uniform bolt tension and substantial release torque that must be overcome for parts to be disassembled. This is important, otherwise parts can disassemble under vibration load.

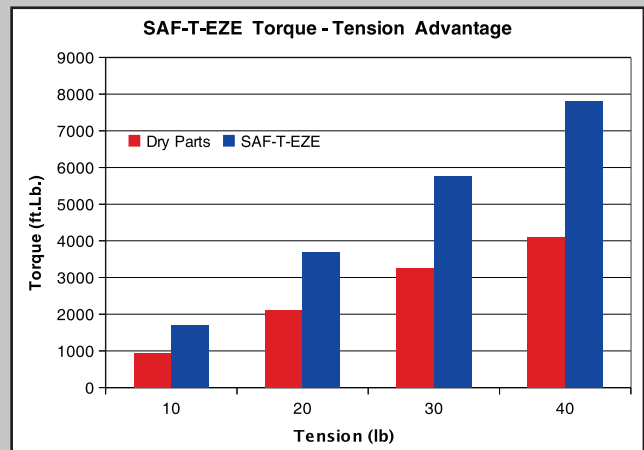
SAF-T-EZE coefficients of friction when tested at 1200rpm under 7kg load at 167°F are shown below:

**Regular, Copper or Copper Nuclear Grades .075**  
**Nickel or Nickel Nuclear Grades .085**

SAF-T-EZE measures 24 percent lower coefficient than some other well known products and because of the solid lubricant particle shape and uniform size, even after exposure to over 450°F, at least 70 percent of assembly torque is required to remove fasteners. Thus it safely holds parts until it is time for them to be disassembled. It is not necessary to clean parts before applying SAF-T-EZE as it is compatible with most oils and greases, only brush away dirt and apply.

Regular, Copper and Nickel Anti-Seize formulations include proprietary corrosion inhibiting additives as well as additives to prevent water wash out thus guaranteeing Ultimate Protection of parts. Furthermore the lubricants in these products are produced from high molecular weight oils to prevent oil separation and provide infinite shelf life.

## SAF-T-EZE Torque - Tension Advantage



It is essential that Anti-Seize products be produced from uniform fine flake shaped particles to permit continuous coating of metal surfaces and to prevent wipe-off during assembly by large particles as shown with some competitive products in the photographs on page 15. On the other hand, products produced from particles that are too fine will act as ball bearings and when exposed to temperatures as low as 400°F for as short as 16 hours they no longer maintain release torque.

## UNLIMITED APPLICATIONS

- Threaded parts
- Bushings
- Gears
- Chains
- Levers
- Sprockets
- Couplings
- Pivots
- Rollers
- Hinges
- Valve stems
- Winches
- Heat exchanger bolts
- Gasket release agents
- Manifolds
- Drill rigs
- Off shore equipment
- Extrusion dies
- Pump shafts and U bolts
- Press fits
- Fuel injectors
- Spark plugs etc.

**Not Recommended for Oxygen Service**



**SAF-T-EZE helps put equipment safely together and permits disassembly with guaranteed ease.**



# DISPENSING AND UV CURE EQUIPMENT



## STL 2000 Dispenser

Electropneumatic application of general purpose adhesives and sealants.

SAF-T-LOK offers a selection of equipment to efficiently bring products to the assembly work stations as well as to UV cure them.

## Dispensing

While many dispense products directly from the ergonomically designed shipping containers, higher volume and automated or semi-automated dispensing and curing can be achieved utilizing equipment specifically designed to speed assembly. Precision application will also reduce cost and keep the workplace clean.



## STL 10 Dispenser

Pneumatic control for 10.3 ounce cartridges.

## UV Cure Equipment

High intensity UV lights transmitted through a fiber optic wand to the work station. The illuminated area is approximately 1/2" in diameter. The STL20 is ideal for coil winding application and can be positioned for automated installations.



## STL 20 Cure Assembly



## STL 75 Pour Valve

PTFE pour components for ease of clean up.



## STL 2500 Dispenser

Electropneumatic application of low viscosity adhesives with vacuum drawback.

# PRODUCT PACKAGING



Product Name	Container Size	Item Number	Page
Grade A	10ml	12121	4
	50ml	12131	4
	250ml	12141	4
Grade AA	10ml	11121	4
	50ml	11131	4
	250ml	11141	4
Grade AV	10ml	12321	4
	50 ml	12331	4
	250ml	12341	4
Grade AVV	50 ml	12431	4
	250 ml	12441	4
Grade B	10 ml	13121	4
	50 ml	13131	4
	250 ml	13141	4
Grade C	10 ml	14121	4
	50 ml	14131	4
	250 ml	14141	4
Grade CV	10 ml	14221	4
	50 ml	14231	4
	250 ml	14241	4
Grade CVV	50 ml	14331	4
	250 ml	14341	4
Grade D	10 ml	12221	4
	50 ml	12231	4
	250 ml	12241	4
Grade E	10 ml	15121	4
	50 ml	15131	4
	250 ml	15141	4
Grade EV	10 ml	15221	4
	50 ml	15231	4
	250 ml	15241	4
Grade H	10 ml	16121	4
	50 ml	16131	4
	250 ml	16141	4
Grade HV	10 ml	16221	4
	50 ml	16231	4
	250 ml	16241	4
Grade HVV	50 ml	16331	4
	250 ml	16341	4

Product Name	Container Size	Item Number	Page
Primer N	1.75 oz	19018	11
	4.5 oz	19066	11
	1 gal.	19095	11
Solventless Primer	1.75 oz.	19218	11
	1 liter	19277	11
Primer T	1.75 oz	19118	11
	4.5 oz	19166	11
	1 gal.	19195	11
T22-Small Screw Lock	10 ml	22221	3
	50 ml	22231	3
	250 ml	22241	3
T41-Bearing Mount	10 ml	24121	3
	50 ml	24131	3
	250 ml	24141	3
T42-Nut Lock	1 ml	24202	3
	10 ml	24221	3
	50 ml	24231	3
	250 ml	24241	3
T43 - Nut Lock	50 ml.	24331	3
	250 ml.	24341	3
T62-Stud Lock	10 ml	26221	3
	50 ml	26231	3
	250 ml	26241	3
T70-Stud Lock	1 ml	27002	4
	10 ml	27021	4
	50 ml	27031	4
	250 ml	27041	4
T72-Stud Hi-Temp	50 ml	27231	4
	250 ml	27241	4
T77-Big Stud Lock	50 ml	27731	4
	250 ml	27741	4
S90-Penetrating	1 ml	29002	9
	10 ml	29021	9
	50 ml	29031	9
	250 ml	29041	9
Core Plug	50 ml	24031	9
	250 ml	24041	9
Hydraulic Selant	10 ml	26921	9
	50 ml	26931	9

# PRODUCT PACKAGING



Product Name	Container Size	Item Number	Page
Hydraulic Selant	250 ml	26941	9
Refrigerant Sealant	50 ml	24531	9
	250 ml	24541	9
Pneumatic Sealant	50 ml	25431	9
	250 ml	25441	9
S03 Preapplied White	8 oz	82837	8-9
	10 liter	82810	8-9
S17 Preapplied Orange	8 oz	82937	8-9
	10 liter	82910	8-9
Teflon Pipe Sealant	50 ml	26732	8
	250 ml	26742	8
Industrial-TPS	6 ml	26512	8
	50 ml	26532	8
	250 ml	26542	8
Food/Drug TPS	50cc	26332	8
Industrial-TPS #2	50 ml.	26632	8
	250 ml.	26642	8
Polymeric Flange Seal Blue	50 ml	21732	7
	250 ml	21742	7
	300 ml	21763	7
Polymeric Flange Seal Red	50 ml	21832	7
	300 ml	21863	7
Polymeric Flange Seal Yellow	50 ml	21532	7
	250 ml	21542	7
	300 ml	21563	7
R01 - Retainer	1 ml	20102	5
	10 ml	20121	5
	50 ml	20131	5
	250 ml	20141	5
R20 - Retainer	10 ml	22121	5
	50 ml	22131	5
	250 ml	22141	5
R35 -Retainer	10 ml.	23521	*
	50 ml	23531	*
	250 ml	23541	*
R38 - Retainer	50 ml.	63831	5
	250 ml.	63841	5
R41 - Retainer	10 ml.	23121	5-6
	50 ml	23131	5-6

Product Name	Container Size	Item Number	Page
R41 - Retainer	250 ml	23141	6
R42 - Retainer	50 ml	64331	6
	250 ml	64341	6
R48 - Retainer	50 ml.	64831	5
	250 ml.	64841	5
R60 - Retainer	50 ml	26032	*
R80 - Retainer	1 ml	28002	6
	50 ml	28031	6
	250 ml	28041	6
S90 - Retainer	50 ml	29031	9
	250 ml	29041	9
IB 5	1 oz.	40531	13
	1 lb.	40551	13
IB 20	20 gm.	42021	13
	1 lb.	42051	13
IB 45	3 gm	44501	13
	1 oz.	44531	13
	1 lb.	44551	13
IB 100	3 gm	41001	13
	1 oz.	41031	13
	1 lb.	41051	13
IB 300	3 gm	43001	13
	20 gm.	43021	13
	1 lb.	43051	13
IB 600	20 gm.	46021	13
	1 lb.	46051	13
IB 1500	1 oz.	41531	13
	1 lb.	41551	13
IB 2500	1 oz.	42531	13
	1 lb.	42551	13
IB Methyl 5	1 oz.	40631	13
	1 lb.	40651	13
IB Methyl 45	1 oz.	44631	13
	1 lb.	44651	13
IB Methyl 100	3 gm	41101	13
	1 oz.	41131	13
	1 lb.	41151	13
IB-Surface Insensitive	20 gm.	40721	13
	1 lb.	40751	13

\* See Technical Data Sheets for product information.

# PRODUCT PACKAGING

**SAF-T-LOK®**

Product Name	Container Size	Item Number	Page
IB-Hi-Temp	20 gm.	41221	13
	1 lb.	41251	13
IB-High Impact	20 gm.	41621	13
	1 lb.	41651	13
IB - EPDM	20 gm.	41721	13
	1 lb.	41751	13
IB-Non-Frosting	20 gm.	40121	13
	1 lb.	40151	13
IB-Black	3 gm.	40301	13
	20 gm.	40321	13
	1 lb.	40351	13
IB101 "O" Ring Bonder	0.3 oz.	40411	13
	4 oz.	40441	13
	1 lb.	40451	13
IB-Gel	20 gm.	44022	13
	200 gm.	44063	13
Debond	2 oz.	46138	11
	Gallon	46195	11
IB-Accelerator	1.75 oz.	46238	11
	Gallon	46255	11
IB-Surface Conditioner	4 oz.	46345	11
Flushing Solvent	16 oz.	10857	11
SA-5 Adhesive	50 gm.	30531	14
	Liter	30543	14
SA-24 Adhesive	50 gm.	30631	13
	1 liter	30643	13
Tri-Cure III UV	50 gm.	30331	13
	1 liter	30343	13
SA-Activator	1.75 oz.	39018	11
	Pint	39065	11
SA-Solventless Activator	1.75 oz.	39118	10
SA-26 Adhesive	50 gm.	30731	14
	1 liter	30743	14

Product Name	Container Size	Item Number	Page
Tri-Cure UV	50 gm.	30131	14
	1 liter	30143	14
Tri-Cure II UV	50 gm.	30231	14
	1 liter	30243	14
SA-Solventless Activator	16 oz.	39165	11
732 Neutral Cure Clear	10.3 oz.	73763	12
	4.5 gal.	73779	12
732 Neutral Cure Black	10.3 oz.	73963	12
	4.5 gal.	73979	12
732 RTV Clear	3 oz.	73022	12
	7.25 oz.	73048	12
	10.3 oz.	73063	12
	4.5 gal.	73079	12
732 RTV White	3 oz.	73122	12
	7.25 oz.	73148	12
	10.3 oz.	73163	12
	4.5 gal.	73179	12
732 RTV Black	3 oz.	73222	12
	7.25 oz.	73248	12
	10.3 oz.	73263	12
	4.5 gal.	73279	12
732 RTV Blue	3 oz.	73322	12
	7.25 oz.	73348	12
	10.3 oz.	73363	12
	4.5 gal.	73379	12
732 RTV Aluminum	4.5 gal.	73479	12
732 RTV Red	3 oz.	73622	12
	7.25 oz.	73648	12
	10.3 oz.	73663	12
	4.5 gal.	73679	12
Marine Grade RTV	10.3 oz.	73863	12
Clr, Blk, Wht	4.5 gal.	73879	12

# PRODUCT PACKAGING



Product Name	Container Size	Item Number	Page
Regular	1 gm. Packet	80102	16
	1 oz. tube	80112	16
	4 oz. tube	80122	16
	4 oz. can	80125	16
	4 oz. Brush top can	80127	16
	8 oz. brush top	80137	16
	12 oz. aerosol can	80156	16
	16 oz. cartridge	80153	16
	16 oz. can	80155	16
	16 oz. brush top can	80157	16
	2.5 lb. can	80160	16
	8 lb. can	80165	16
	42 lb. pail	80178	16
	130 lb. drum	80189	16
	425 lb. drum	80199	16
Nickel	4 oz. brush top can	80227	16
	8 oz. brush top	80237	16
	12 oz. aerosol can	80256	16
	16 oz. cartridge	80253	16
	16 oz. can	80255	16
	16 oz. brush top can	80257	16
	2.5 lb. can	80260	16
	8 lb. can	80265	16
	42 lb. pail	80278	16
	130 lb. drum	80289	16
Copper	4 oz. Brush top can	84527	16
	8 oz. brush top	84537	16
	12 oz. aerosol can	84556	16
	16 oz. cartridge	84553	16
	16 oz. brush top can	84557	16
	2 lb. can	84555	16
	8 lb. can	84565	16
	42 lb. pail	84578	16
	130 lb. drum	84589	16
	425 lb. drum	84599	16

Product Name	Container Size	Item Number	Page
Nickel Premium	4 gm.	80604	16
	.25 oz.	80612	16
	8 oz. brush top	80637	16
	16 oz. cartridge	80653	16
	16 oz. brush top can	80657	16
	130 lb. drum	80689	16
	425 lb. drum	80699	16
Nuclear Nickel	4 oz. brush top can	80422	17
	8 oz. brush top	80437	17
	16 oz. brush top can	80457	17
	42 lb. pail	80478	17
Nuclear Copper	8 oz. brush top	80537	17
	16 oz. brush top can	80557	17
Food Drug	2 oz. tube	80318	17
	8 oz. brush top	80337	17
	14 oz. cartridge	80343	17
	2 lb.	80355	17
	7 lb. can	80365	17
Moly	130 lb. drum	80389	17
	3 oz. tube	80822	17
	10 oz. brush top can	80837	17
	16 oz. cartridge	80853	17
	16 oz. can	80855	17
Moly 50	42 lb. pail	80878	17
	16 oz. can	80955	17
Blue Moly	500 gm. jar	83751	17
	1 kg. jar	83760	17
Marine	8 oz. brush top	83437	17
	16 oz. brush top can	83457	17
Stainless Steel	8 oz. brush top	83937	18
	16 oz. brush top can	83957	18
	500 gm jar	83958	18
Graphite Petro	8 oz. brush top	81725	18
	16 oz. can	81755	18
Zinc Petro	8 oz. brush top	80737	18
	16 oz. brush top can	80757	18
Heavy	8 oz. brush top	81837	18
Metal Free	16 oz. brush top can	81857	18

# PRODUCT PACKAGING



Product Name	Container Size	Item Number	Page
Assembly	3 oz. tube	81022	18
Paste	16 oz. can	81055	18
Non-Metalic	8 oz. brush top can	83837	18
	16 oz. brush top can	83857	18
High Temp	7 oz. brush top can	81437	19
Bearing Lube	14 oz. cartridge	81447	19
	35 lb. pail	81478	19
EP Lube	14 oz. can	81145	19
	14 oz. cartridge	81143	19
Extended	14 oz. can	81345	19
Life Lube	14 oz. cartridge	81343	19
	35 lb. pail	81378	19
Di-Electric	5.3 oz tube	81522	19
Silicone Grease	8 lb. can	81565	19
General Purpose	5.3 oz. tube	81622	19
Silicone Lube	8 lb. can	81665	19
	40 lb. pail	81678	19
Pipe Seal	8 oz. brush top can	82537	18
	16 oz. brush top can	82557	18
	10 lb. can	82565	18

Product Name	Container Size	Item Number	Page
Fine Thread	4 oz. brush top can	82627	18
Pipe Seal	8 oz. brush top Can	82637	18
	16 oz. brush top can	82657	18
GS-#1	3 oz. tube	82212	18
GS-#2	3 oz. tube	82312	18
	11 oz. tube	82343	18
GS-#3	4 oz. brush top can	82437	18
	16 oz. brush top can	82457	18
GS-#5	5 oz tube	82122	18
Pen-Oil	12 oz. aerosol can	85056	19
Silicone-Lube	9 oz. aerosol can	85165	19
Food/Drug	9 oz. aerosol can	85256	19
Silicone-Lube			
Contact-Clean	11 oz. aerosol can	85556	19
Gasket-Off	14 oz. aerosol can	85456	19
Belt-Dress	9 oz. aerosol can	85656	19
Hi-Tek Cleaner	15 oz aerosol can	85756	19
Dry-Moly	12 oz. aerosol can	85856	19
T-Gel Lube	10 oz. aerosol can	85956	19

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## Military, ASTM USDA/FDA&NSF Major Spec. Product List

### SAF-T-LOK

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	C, CV, CVV	4
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	H, HV, HVV	4
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MIL-A-25463	TYPE I,II (SAE-AMS-A25463)	14
MIL-A-46050	TYPE I Class 1,2 & TYPE II Class 1,2,3	12
MIL-S-46106	TYPE I	13
MIL-R-46082	TYPE I, II, III	5-6
MIL-S-46163	TYPE I Grade J,K,L	3-4
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### SAF-T-EZE

SPECIFICATION	GRADES	PAGE
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	D6Y28A1	10
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MIL-T-5544(SAE-AMS2518)		18
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NSF Listed	H1,H2	15-16
	Certified	Std. 61
WESTINGHOUSE	WMS53702BY	15-16



# CORPORATE OFFICES

## SAF-T-LOK International Corporation—USA

300 Eisenhower Lane North  
Lombard Illinois, 60148—USA  
Ph: 630 495-2001  
FAX: 630 495-8813  
Email: cs@saftlok.com  
Website: www.saftlok.com

## SAF-T-LOK de Mexico, S.A. de C.V.

Manzano 392, S.J.  
Guadalajara, JAL. C.P. 44180  
Ph: 658-0138  
FAX: 613-1420

## SAF-T-LOK Canada

Montreal, Canada  
Ph: 514 916-1665  
FAX: 450-831-2950



# WORLDWIDE OFFICES

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Montreal—Canada  
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