

High Temperature Bearing Lubricant

Product Description

Never-Seez® High Temperature Bearing Lubricant is an exclusive combination of a specially formulated high temperature grease and lubricating enhancers that provides long lasting lubrication at temperatures between 500°F to 1000°F (260°C to 538°C).

High Temperature Bearing Lubricant is recommended for ball and roller bearings, bushings, open and sealed bearings.

Product Benefits

- Excellent lubrication between 500°F to 1000°F (260°C to 538°C)
- Has no "dropping point" (will not melt)
- Good extreme pressure characteristics
- Contains no metallic particles

Product Applications

- Process oven bearings
- Heat treat ovens and furnaces
- Kiln ovens and casters
- Oven damper controls
- High temperature exhaust fans

Limitations

- Never-Seez® High Temperature Bearing Lubricant does oxidize at temperatures above 500°F (260°C). However, solid lubricant additives will continue to provide protection after grease burns off.
- Not suitable for automated delivery systems as clogging may occur
- Visual and auditory inspection is recommended to determine frequency of application
- Not compatible with traditional greases—purge or clean old grease thoroughly from system
- Speed factor (n x dm) less than 150,000

Other Anti-Seize Lubricants

- Regular Grade
- Pure Nickel Special
- Nuclear Grade, Nickel Special
- High Temp Stainless
- High Temp Stainless, Nuclear Certified
- Blue Moly Lubricant
- Black Moly Lubricant
- Red Bearing Lubricant
- White Food Grade with PTFE
- Pipe Compound with Teflon®
- Mariner's Choice
- Heavy Metal Free
- PetroChem Grade



Technical Specifications

Color	Black	
Temperature Range, °F (°C)	15°F to 1000°F (-9°C to 538°C)	
Thickener Type	Clay	
Particle Size, mil (microns)	1.50 maximum (38 µ)	
Density (g/cm3)	0.90 to 0.94	
		ASTM Test Method
Flash Point, °F (°C)	>450°F (>232°C)	D-92
Copper Corrosion Test @ 212°F (100°C), 24 hrs.	No corrosion	D-130
Worked Penetration; 60 strokes @ 77°F (25°C)	265-320	D-217
NLGI Grade	1/2	D-217
Dropping Point, °F (°C)	Non-dropping	D-566
Water Washout, %		
	@100°F (40°C)	<1.0 D-1264
	@175°F (80°C)	<3.0
Coefficient of Friction @ 167°F (75°C), 4 ball	0.070	D-2266
Four Ball EP Load Wear Index	24.8	D-2596
	Last Non-seizure Load (scar)	63 kgf (0.39 mm)
	Last Seizure Load (scar)	126 kgf (2.60 mm)
	Weld Load	160 kgf

Ingredients: Special high temperature grease and graphite.

Shelf Life: Never-Seez® High Temperature Bearing Lubricant does not deteriorate with age when stored unopened at temperatures below 120°F (49°C). Quality and performance are guaranteed for two years from the date of manufacture on unopened containers.

Use in accordance with Material Safety Data Sheet.

Ordering Information:

NEVER-SEEZ® HIGH TEMPERATURE BEARING LUBRICANT

STOCK NUMBER	DESCRIPTION	SIZE
NHTC-14	Cartridge	14 oz.
NHT-35B	Pail	35 lbs.
NHT-120B	Drum	115 lbs.
NHT-390B	Drum	390 lbs.

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NEVER-SEEZ®

REGULAR GRADE

KEY FEATURES

- Copper formula protects in extreme heat up to 1800°F
- Protects against corrosion, rusting, pitting, seizure and galling
- Meets GE EMPIS D6Y28A1 Specification

DESCRIPTION

Never-Seez® Regular Grade is a superior, anti-seize and extreme pressure lubricant formulated to protect metal parts against seizure. Copper and graphite particles in a special grease protect parts in high heat, high pressure and corrosive environments.

BENEFITS

- Keeps parts working longer with less wear
- Minimizes parts replacement costs
- Enables faster disassembly when repairs are needed (even after exposure to high temperatures)
- Protects against carbon fusion
- Resists alkaline solutions, most chemical and acid vapors, road salt, steam, salt water, iodized water
- Prevents galling on steel to stainless steel, titanium, magnesium, and other hard metals

APPLICATIONS

- Nuts, bolts, screws
- Pipe fittings
- Boom guides
- Valve assemblies
- Pump mountings
- Chain drives
- Machinery
- Shafts
- Gaskets
- Press fit assemblies
- Taps and drills
- Packing glands
- Metal fittings

LIMITATIONS

- Never-Seez® Regular Grade is not recommended for high speed bearings.
- For temperature resistance to 2400°F (1316°C), use Never-Seez® Pure Nickel Special.
- For applications where the presence of copper is prohibited, use Never-Seez® Pure Nickel Special,



TECHNICAL SPECIFICATIONS

Color	Silver Gray	
Temperature Range, °F (°C)	-297°F to 1800°F (-183°C to 982°C)	
Thickener Type	Lithium Soap	
Particle Size, mil (microns)	2 maximum (50 µ)	
Density (g/cm ³)	1.15 to 1.24	
		ASTM Test Method
Flash Point, °F (°C)	>485°F (>250°C)	D-92
Copper Corrosion Test @ 212°F (100°C), 24 hrs.	No corrosion	D-130
Worked Penetration, 60 strokes @ 77°F (25°C)	260-310	D-217
NLGI Grade	1/2	D-217
Dropping Point, °F (°C)	>360°F (182°C)	D-566
Water Washout, % loss @ 100°F @ 175°F	0.30 2.10	D-1264
Coefficient of Friction @ 167°F (75°C), Four Bal	0.06	D-2266
Torque Coefficient, k factor	0.13	
Four Ball EP	Load Wear Index	81
	Last Non-seizure Load (scar)	63 kgf (0.41 mm)
	Last Seizure Load (scar)	400 kgf (1.87 mm)
	Weld Load	500 kgf
		D-2596

Never-Seez® High Temperature Stainless, Never-Seez® Blue Moly or Never-Seez® Mariner's Choice.

- Not recommended for use in pure oxygen and/or oxygen rich systems.

INGREDIENTS

Contains a special, high-quality grease with graphite, copper flake, aluminum powder and zinc oxide.

SHELF LIFE

Never-Seez® Regular Grade does not deteriorate with age when stored unopened at temperatures below 120°F (49°C). Quality and performance are guaranteed for five years from the date of manufacture, under normal usage and storage.

HOW NEVER-SEEZ REGULAR GRADE AFFECTS TORQUE

Compared to unlubricated fasteners, the use of Never-Seez "Regular-Grade" can be viewed 2 ways:

- It provides the SAME clamping force when applying up to 30% LESS torque!
- It provides up to 42% MORE clamping force when applying the SAME amount of torque!

IMPORTANT!

- In order to best represent typical torque reduction values, Bostik references a "K-Factor" for unlubricated carbon steel fasteners of 0.185.
- Proper torque is critical and, if not clearly understood, users may over-torque their fasteners which may lead to costly damage.

Use in accordance with Safety Data Sheet.

ELECTRICAL PROPERTIES			ASTM D-150	
Cycles	Dissipation Factor	Dielectric Constant	Resistivity OHMS-cm	Conductivity Mhos/cm
1,000	0.0255	14.6	4.2 x 10 ⁹	4.32 x 10 ⁻⁹
10,000	0.0310	13.4	3.5 x 10 ⁹	3.77 x 10 ⁻¹⁰

Specifications: Meets MIL-A-907; Ford Spec. #ESE-M12A4-A; G.E. D6Y28A1-S6; Garrett PCS5724; U.T. Pratt & Whitney PWA 36053-2.

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ORDERING INFORMATION

NEVER-SEEZ® REGULAR GRADE ANTI-SEIZE AND LUBRICATING COMPOUND

Stock Number	Description	Size	Item #
NS-160	Flat Top	1 lb.	BNRG1-FTC12
NS-168	Flat Top	8 lbs.	BNRG8-FTC4
NSA-16	Aerosol Spray	16 oz.	BNRG12AC12
NSBT-8	Brush Top	8 oz.	BNRG8BTC12
NSBT-16	Brush Top	1 lb.	BNRG1-BTC12
NSC-1	Cartridge	1 lb.	BNRG1-CTGC12
NSB-4	Tube	1/4 lb.	BNRG4TC24
NS-42B	Pail	42 lbs.	BNRG42PS1
NS-130B	Drum	130 lbs.	BNRG130K1
NS-425B	Drum	425 lbs.	BNRG425D1

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N20-02.22.17



High Temperature Stainless

Product Description

Never-Seez® High Temperature Stainless is a superior, high temperature anti-seize and extreme pressure lubricant which protects up to 2200°F (1204°C). It contains fine metallic and graphite particles suspended in a specially formulated grease. Recommended when applications prohibit the presence of nickel, especially when resistance to corrosive acidic and caustic solutions is required.

Product Benefits

- Excellent resistance to corrosion
- Prevents seizure at high temperatures
- Resists galvanic action between dissimilar metals
- Speeds disassembly
- Prevents galling
- Resists alkaline solutions, chemical and acid vapors, road salt, steam, salt water and iodized water

Product Applications

- Fasteners in steel mills and power plants
- Stainless steel pipe fittings, flanges, pump fittings and unions
- Fasteners in exhaust manifolds
- Reactor bolts
- Turbine bolts
- Gauges and fittings

Limitations

- Never-Seez® High Temperature Stainless is not recommended for high speed bearing applications. Never-Seez® Red Bearing Lubricant is suggested for these applications.
- In applications where indirect food contact is possible, use USDA approved Never-Seez® White Food Grade with PTFE.

Other Anti-Seize Lubricants

- Regular Grade
- Nuclear Grade, Nickel Special
- Pure Nickel Special
- Nuclear Grade, High Temperature Stainless
- Blue Moly Lubricant
- Black Moly Lubricant
- Red Bearing Lubricant
- White Food Grade with PTFE
- High Temperature Bearing Lubricant
- Pipe Compound with Teflon®
- Mariner's Choice
- Heavy Metal Free
- PetroChem Grade



Technical Specifications

Color	Silver Gray	
Temperature Resistance, °F (°C)	-297°F to 2200°F (-183°C to 1204°C)	
Thickener Type	Lithium Soap	
Particle Size, mil (microns)	2 maximum (50 µ)	
Density (g/cm3)	1.15 to 1.24	
ASTM Test Method		
Flash Point, °F (°C)	>300°F	D-92
Copper Corrosion Test @ 212°F (100°C), 24 hrs.	No corrosion	D-130
Worked Penetration, 60 strokes @ 77°F (°C)	260-310	D-217
NLGI Grade	1/2	D-217
Dropping Point, °F (°C)	>360°F (182°C)	D-566
Water Washout, % loss @ 100°F	<2	D-1264
@ 175°F	<5	
Coefficient of Friction @167°F (75°C), Four Ball	0.092	D-2266
Torque Coefficient, k factor	0.16	
Four Ball EP	Load Wear Index	55.6 D-2596
	Last Non-seizure Load (scar)	50 kgf (0.40 mm)
	Last Seizure Load (scar)	400 kgf (2.59 mm)
	Weld Load	500 kgf

Specifications: MIL-A-907.

Ingredients: A special, high quality grease containing graphite, stainless and other additives.

Shelf Life: Never-Seez® High Temperature Stainless compound does not deteriorate with age when stored unopened at temperatures below 120°F (49°C). Quality and performance are guaranteed for five years from the date of manufacture on unopened containers.

How Never-Seez High Temperature Stainless Affects Torque:

Compared to unlubricated fasteners, the use of Never-Seez High Temperature Stainless can be viewed 2 ways:

- (1) It provides up to 14% MORE clamping force when applying the SAME amount of torque!
- (2) It provides the SAME clamping force when applying up to 14% LESS torque!

IMPORTANT!

- In order to best represent typical torque reduction values, Bostik references a “K-Factor” for unlubricated carbon steel fasteners of 0.185.
- Proper torque is critical and, if not clearly understood, users may over-torque their fasteners which may lead to costly damage. BOSTIK is not liable for any damages incurred. Refer to the Bostik standard warranty for details.

Use in accordance with Material Safety Data Sheet.

Ordering Information:

NEVER-SEEZ® HIGH TEMPERATURE STAINLESS

STOCK NUMBER	DESCRIPTION	SIZE
NSS-160	Flat Top	1 lb.
NSSBT-8	Brush Top	8 oz.
NSSBT-16	Brush Top	1 lb.
NSS-42B	Pail	42 lbs.
NSS-425B	Drum	425 lbs.

IMPORTANT NOTICE

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Black Moly

Extreme Pressure Lubricant

Product Description

Never-Seez® Black Moly lubricant is designed for industrial applications requiring non-destructive assembly and disassembly where combinations of high loads, high temperatures and low speeds are encountered to reduce friction during the assembly of press-fit components. This multi-purpose extreme pressure anti-seize lubricant contains a high concentration of molybdenum disulfide. Especially effective under extreme pressures involving heavy loads and slow speed resulting in boundary lubrication conditions, Never-Seez® Black Moly withstands pressures to 500,000 psi up to 750°F (399°C).

Product Benefits

- Protects and lubricates metal parts in high friction, high pressure environments.
- Provides smooth break-in of new and rebuilt equipment.
- Resists temperatures to 750°F (399°C).

Product Applications

- Press fit assemblies
- Equipment break-in
- Machine tool parts
- Highly loaded bearings <500 RPM
- Hot exhaust fans
- Adjusting screws
- Screw jacks
- Crushing mills
- Steel forming gates and slides

Limitations

- For lubrication at temperatures up to 1000°F, use Never-Seez® High Temperature Bearing Lubricant.
- Speed factor (n x dm) less than 150,000.

Other Anti-Seize Lubricants

- Regular Grade
- Pure Nickel Special
- Nuclear Grade, Nickel Special
- High Temp Stainless
- High Temp Stainless, Nuclear Certified
- Marine Grade
- Blue Moly
- Red Bearing Lubricant
- White Food Grade with PTFE
- High Temperature Bearing Lubricant
- Pipe Compound with Teflon®



Technical Specifications

Color	Dark Grey	
Temperature Range, °F (°C)	10°F to 750°F (-12°C to 399°C)	
Solvent Resistance	Excellent in water, salt water, ionized water	
Particle Size, mil (microns)	1 maximum (25m)	
Density (g/cm ³)	1.1 to 1.3	
NLGI Grade	1/2	
		ASTM Test Method
Penetration Worked (60 strokes), mm	300-350	D-217
Flash Point, °F (°C)	>482°F (>250°C)	D-92
Dropping Point, °F (°C)	375°F (191°C)	D-566
EP		D-2596
	L.W.I., kgf	50
	L.N.S.L., kgf	80
	Weld Point, kgf	250
Shell 4 Ball Wear (Scar Diameter), mm	0.59	D-2596
Torque Coefficient, k factor	0.140	
Coefficient of Friction (4 ball test)	0.0597	D-2266
Extreme Pressure (4 ball weld load), kgf	250	D-2783

Ingredients: Molybdenum disulfide, zinc oxide in a special high quality grease.

Shelf Life: Never-Seez® Black Moly does not deteriorate with age when stored unopened at temperatures below 120°F (49°C). Quality and performance are guaranteed for five years from the date of manufacture on unopened containers.

Use in accordance with Material Safety Data Sheet.

Ordering Information:

BLACK MOLY (EXTREME PRESSURE LUBRICANT)

STOCK NUMBER	DESCRIPTION	SIZE
NSBC-1	Cartridge	1 lb.
NSB-150	Flat Top	1 lb.
NSB-35B	Pail	35 lbs.
NSB-425B	Drum	425 lbs.

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Mariner's Choice

Product Description

Never-Seez® Mariner's Choice is a heavy duty anti-seize and extreme pressure lubricant formulated to assure absolute parts protection against seizure, galling and corrosion in fresh and salt water environments.

Mariner's Choice offers unparalleled resistance to water washout and the best protection in continuous high moisture environments both above and below water lines.

Product Benefits

- Prevents seizure at temperatures up to 2,450°F (1,343°C)
- Prevents galvanic corrosion in salt and fresh water environments
- Superior resistance to water washout and water spray
- Excellent extreme pressure lubricating properties
- Low torque factor
- Compatible with soft metals
- Contains no copper

Product Applications

- Bilge pumps, screw shafts, prop shaft bearing housing, winches, cables, anchor lines, porthole studs, rigging and hoist cables
- Also, recommended for steel mills, suspension bridges, wind turbines, offshore rigging and other applications exposed to harsh salt water and fresh water conditions.

Limitations

- Not recommended for use in pure oxygen and/or oxygen rich systems.
- Not recommended for use in acidic environments. (Never-Seez High Temperature Stainless or Never-Seez Pure Nickel Special is suggested for these applications.)
- Never-Seez Mariner's Choice is NOT recommended for high speed bearing applications. (Never-Seez Red Bearing Lubricant is suggested for these applications.)
- In applications where indirect food contact is possible, use NSF H1 approved Never-Seez White Food Grade.

Directions

Apply liberally to all threaded areas of nuts and bolts. Before reapplication, clean threaded areas with a wire brush or mineral oil.

Other Anti-Seize Lubricants

- Regular Grade
- High Temp Bearing Lubricant
- High Temp Stainless
- Pipe Compound with Teflon®
- High Temp Stainless, Nuclear Certified
- Blue Moly Lubricant
- Black Moly
- Red Bearing Lubricant
- White Food Grade with PTFE
- Pure Nickel Special, Nuclear Grade
- Pure Nickel Special
- Heavy Metal Free

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Technical Specifications

Color	Black-Gray	
Temperature Range, °F (°C)	-297°F to 2,450°F (-183°C to 1,343°C)	
Thickener Type	Calcium Complex	
Particle Size, mil (microns)	3.5 maximum (75 µ)	
Density (g/cm³)	1.31 to 1.39	
		ASTM Test Method
Flash Point, °F (°C)	>475°F (246°C)	D-92
Salt Fog Test, hrs.	4,000	B-117
Copper Corrosion Test @ 212°F (100°C), 24 hrs.	No Corrosion	D-130
Worked Penetration, 60 Strokes @ 77°F (25°C)	260-310	D-217
NLGI Grade	1/2	D-217
Dropping Point, °F (°C)	572 (300)	D-566
Torque Coefficient, k factor	0.11	
Water Washout, % loss @ 100°F	<1.00	D-1264
@ 175°F	<2.75	
Bearing Rust Test	Pass	D-1743
Four Ball EP	Load Wear Index	127.3
	Last Non-Seizure Load (scar)	100 kgf (0.45 mm)
	Last Seizure Load (scar)	620 kgf (2.21 mm)
	Weld Load	800 kgf
Fretting Wear @ 73°F (23°C), 22 hrs., mg loss	7.15	D-4170

Specifications: Tested to MIL-A-907E.

Ingredients: Proprietary Ingredients: Graphite (7782-42-5); Calcium fluoride (CaF₂) (7789-75-5); Zinc Oxide (1314-13-2); Aluminum (7429-90-5).
California Proposition 65: Alpha-Naphthylamine, beta-Naphthylamine

Shelf Life: Never-Seez Mariner's Choice compound does not deteriorate with age when stored unopened at temperatures below 120°F (49°C). Quality and performance are guaranteed for five years from the date of manufacture on unopened containers.

Use in accordance with Material Safety Data Sheet.

Ordering Information:

NEVER-SEEZ® MARINER'S CHOICE

STOCK NUMBER	DESCRIPTION	SIZE
NMCBT-8	Brush Top	8 oz.
NMCBT-16	Brush Top	16 oz.
NMC-42B	Pail	42 lb.
NMC-425B	Drum	425 lb.

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NEVER-SEEZ®

PURE NICKEL SPECIAL

KEY FEATURES

- Protects parts up to 2400°F
- Ensures absolute parts protection against corrosion, seizure, galling, rust
- Meets GE Aviation A50TF198 S2 Specification and GE EMPIS D6Y28C1 Specification

DESCRIPTION

Never-Seez® Pure Nickel Special is a superior, high temperature anti-seize and extreme pressure lubricant containing flake particles of pure nickel, graphite and other additives in a special grease carrier found to enhance anti-seize performance. Recommended for use when applications prohibit the presence of copper, especially when resistance to corrosive acidic and caustic solutions is required.

BENEFITS

- Prevents seizure at high temperatures
- Prevents galling on steel to stainless steel, titanium, magnesium and other hard metals
- Resists galvanic action between dissimilar metals
- Enables fast disassembly—even after high temperature exposure
- Resists alkaline solutions, most chemical and acid vapors, road salt, steam, salt water, ionized water
- Excellent heat dispersing qualities
- Minimizes corrosion

APPLICATIONS

- Fittings, fasteners exposed to high temperatures in steel mills, power plants, nuclear plants
- Stainless steel pipe fittings, flanges, pump fittings
- Fasteners in exhaust manifolds and boilers
- Steam generators
- Assembly of dissimilar metals

LIMITATIONS

- Never-Seez® Pure Nickel Special is not recommended for high speed bearings.



TECHNICAL SPECIFICATIONS

Color	Silver	
Temperature Range, °F (°C)	-297°F to 2400°F (-183°C to 1316°C)	
Thickener Type	Lithium Soap	
Particle Size, mil (microns)	2 maximum (50 µ)	
Density (g/cm³)	1.24 - 1.3	
		ASTM Test Method
Flash Point, °F (°C)	>485°F (>250°C)	D-92
Copper Corrosion Test @ 212°F (100°C), 24 hrs.	No corrosion	D-130
Worked Penetration, 60 strokes @ 77°F (25°C)	260-310	D-217
NLGI Grade	1/2	D-217
Dropping Point, °F (°C)	>360°F (182°C)	D-566
Water Washout, % loss @100°F @ 175°F	<2.0% <5.0%	D-1264
Coefficient of Friction @ 167°F (75°C), 4 ball	0.092	D-2266
Torque Coefficient, k factor	0.158	
Four Ball EP Load Wear Index	68	D-2596
Last Non-seizure Load (scar)	79 kgf (0.59 mm)	
Last Seizure Load (scar)	250 kgf (1.46 mm)	
Weld Load	315 kgf	

- Not recommended for use in pure oxygen and/or oxygen rich systems.
- In applications where incidental food contact is possible, use NSF H1 certified Never-Seez® White Food Grade with PTFE.

INGREDIENTS

A special, high-quality grease with graphite, pure nickel and other additives. Contains no molybdenum disulfide, lead, or mercury except as trace elements.

SHELF LIFE

Never-Seez® Pure Nickel Special compound does not deteriorate with age when stored unopened at temperatures below 120°F (49°C). Quality and performance are guaranteed for five years from the date of manufacture, under normal storage and usage.

HOW NEVER-SEEZ® PURE NICKEL SPECIAL AFFECTS TORQUE

Compared to unlubricated fasteners, the use of Never-Seez® Pure Nickel Special can be viewed 2 ways:

- 1) It provides the SAME clamping force when applying up to 15% LESS torque!
- 2) It provides up to 17% MORE clamping force when applying the SAME amount of torque!

IMPORTANT!

- In order to best represent typical torque reduction values, Bostik references a “K-Factor” for unlubricated carbon steel fasteners of 0.185.
- Proper torque is critical and, if not clearly understood, users may over-torque their fasteners which may lead to costly damage.

Use in accordance with Safety Data Sheet.

ELECTRICAL PROPERTIES		ASTM D-150
Cycles	Dissipation Factor	Dielectric Constant
1,000	0.0227	10.56
10,000	0.0347	10.26

Specifications: Ford ESE-M12A4-A; Ford WSD-M13P8-A1; Boeing BAC 5008 Type 7-3; U.T. Pratt & Whitney PWA 36053-1; GE Engine A50TF198 S2; GE D6Y28C1 S6; Garrett Engine PCS5721.

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ORDERING INFORMATION

NEVER-SEEZ® Pure Nickel Special

Stock Number	Description	Size	Item #
NSN-165	Flat Top	1 lb.	BNPNS1-FTC12
NSBT-8N	Brush Top	8 oz.	BNPNS8BTC12
NSBT-16N	Brush Top	1 lb.	BNPNS1-BTC12
NSN-42B	Pail	42 lbs.	BNPNS42PS1
NSN-425B	Drum	425 lbs.	BNPNS425D1

BOSTIK HOTLINE

Smart help
1-800-726-7845

Bostik, Inc.
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Wauwatosa, WI 53226
www.bostik.com/us

N14-02.22.17



Anti-Seize and Lubrication Compounds



 **NEVER-SEEZ[®]**
...or Get Stuck With Something Else



Specify Never-Seez or Get Stuck With Something Else.

Never-Seez®, a prominent trademark in the Bostik family of products, has been recognized for almost five decades as the industrial leader in anti-seize and lubricating compounds.

When first introduced, the original Never-Seez anti-seize compound represented an innovative way to assemble and disassemble metal parts with ease. A new technology in mechanical engineering, Never-Seez was soon specified for major industrial and government use on parts exposed to heat, pressure and corrosion.

Never-Seez contains very fine metallic particles in a special hydrocarbon carrier which seals and protects metal parts under the most extreme conditions of heat, pressure, and contamination. The fine, protective film of Never-Seez cannot be burned off or completely removed by abrasion. Never-Seez cannot be washed off by fresh or salt water. The protective coating will remain, even after extended exposure to the elements. Application of Never-Seez insures trouble-free protection against seizure, corrosion, pitting, and galling of metal parts.

Disassembly of machinery, piping and metal parts are extremely difficult. Both driven and static parts of mechanical equipment are subject to seizure. Seizure can be caused by many factors: thread distortion caused by heat with subsequent expansion and contraction of metals; incorrect tolerances in press, tapered and shrink fits; effects of exposure causing corrosion; galvanic action because of adjacent dissimilar metals; and carbon deposits in internal combustion applications. Never-Seez helps to eliminate these issues.

The costly expense of down-time, maintenance, repair or replacement of parts can be greatly reduced by using Never-Seez; through nondestructive disassembly and bolt reuse. Surface coverage up to 6,480 sq. in. coverage per pound based on film thickness of 4 mils.

Never-Seez Compounds

Bostik Never-Seez compounds are carefully formulated using a carrier developed to exacting specifications. Never-Seez provides users with unusual cohesiveness and spreadability features to provide extraordinary surface protection. It has a great affinity for metal surfaces and resists displacement under the most adverse environmental conditions.

Features:	Benefits:
Protects from seizure at high temperatures	Bolts, flanges and other parts are removed in less time without damage.
Resists galvanic action	Dissimilar metals do not react at contact interface and allow smooth operation.
Prevents galling	Prevents damage at assembly lowering scrap cost; speeds disassembly.
Protects against rust and corrosion	Parts do not corrode, extending service life and non-destructive disassembly.

Torque Reduction Value

How Never-Seez Affects Torque and Clamping Force

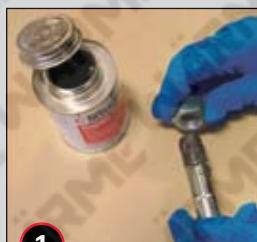
Compared to unlubricated fasteners*, the use of Never-Seez in an application can offer or be viewed in two ways:

- 1. SAME Clamping Force at X% reduction in specified Torque**
Never-Seez provides the SAME clamping force when applying up to X% LESS torque.
- 2. X% MORE Clamping Force at specified Torque**
Never-Seez will provide X% MORE clamping force when applying the specified torque.

*The percentage (X%) variable depends on which Never-Seez product is selected for the job. In order to best represent typical torque reduction value, Bostik engineers reference a "K-Factor" for unlubricated carbon steel fasteners of 0.185. By dividing the selected Never-Seez product "Torque Coefficient, K-factor" by this base line of 0.185 will provide the Never-Seez product X% difference in torque value. Each Never-Seez formula offers unique performance features engineered for its targeted applications. Refer to product information sheets at www.bostik-us.com.

GENERAL THREAD APPLICATION CONSIDERATIONS

When Never-Seez is properly applied, assembled bolt can be reinstalled, reducing replacement costs and maintenance down time.



Apply liberally to base of bolt threads – full circumference. There is no need to coat the full length of threads, eliminating product waste.



Screw the nut on bolt all the way up shaft, then unthread off. This will fill in the anti-seize evenly between the bolt threads thus ensuring proper coverage for effective lubrication.



Apply under the bolt head (full circumference) before installing.

Critical Note: The area under the bolt head contributes more friction than the threads. This is a commonly neglected area and can lead to destructive disassembly as a last resort.

ORIGINAL

PROTECTION

DISASSEMBLY

SAVINGS



Regular Grade

The "original" anti-seize compound and extreme pressure lubricant formulated with copper, graphite, aluminum and other ingredients to protect metal parts against corrosion and seizure. Fine metallic and graphite particles in a special grease protect parts in high heat, high pressure and corrosive environments.

Specifications; certified:

- Ford ESE-M12A4-A
- Garrett Engine Div. PCS5724
- GE D6Y28C1
- Pratt & Whitney PWA 36053-2
- BMW B340294, B340598, B340300
- Mercedes-Benz
- Daimler Chrysler 471502626

Upper Temperature Limit: 1800°F

Torque Reduction Value = 30%

Benefits:

- Resists galvanic action between dissimilar metals
- Protects against carbon fusion
- Resists alkaline solutions, most chemical and acid vapors, road salt, steam and salt water
- Prevents galling and seizure on steel to stainless steel, titanium, magnesium, and other hard metals

Industry Use:

- | | |
|-------------------------------------|---------------------------------|
| • Vehicle brakes & spark plugs | • Glass manufacturers |
| • Amusement park rides | • Kiln & heat treatment plants |
| • Conveyors, elevators & escalators | • Machine tools & rolling mills |
| • Construction sites | • General maintenance |
| • Farm & irrigation rigs | • Mining & drag lines |
| • Foundry, forging & extruder | • Power transmission |
| | • Pulp & paper |
| | • Steel & textile |



Pure Nickel Special and Nuclear Grade

Never-Seez Pure Nickel Special and Nuclear Grade are superior, high temperature, extreme pressure anti-seize compounds. They contain flake particles of pure nickel, graphite and other additives in a special grease carrier found to enhance anti-seize performance. **Both products are recommended for use when applications prohibit the presence of copper, especially when resistance is required.**

Specifications; certified:

- Ford ESE-M12A4 / Ford WSD-M13P8-A1
- Boeing BAC5008 Type 7-3
- Pratt & Whitney PWA 36053-1
- GE Engine A50-TF198 Class A
- GE D6Y28C1
- Garrett Engine Div. PCS5721
- Rolls-Royce EMS27627

While it's the same high quality product as Pure Nickel Special, **Pure Nickel Special Nuclear Grade** is specially tested and certified pure for use in nuclear power plants. Each production lot of Nuclear Grade is tested for contaminants of sulfur, halogens, and low-melt metals. Each container of Nuclear Grade is labeled with the lot and test report number to certify purity.

Specifications; certified:

- GE Nuclear Energy D50YP12 / GE D6Y6C1

Upper Temperature Limit: 2400°F

Torque Reduction Value = 15%

Benefits:

- Excellent heat dispersing qualities
- Minimizes corrosion
- Resists galvanic action between dissimilar metals
- Enables fast disassembly of parts – even after high temperature exposure
- Prevents galling on steel to stainless steel, titanium, magnesium, and other hard metals

Industry Use:

- | | |
|-------------------------------------|-----------------------------|
| • Aerospace & aircraft | • Turbine manufacturer |
| • Chemical plant | • Tire manufacturing |
| • Clay brick firing | • Vehicle oxygen sensors |
| • Petrochemical plants | • Slag blowers |
| • Power generating & Nuclear plants | • Burner nozzle clamp bolts |
| • Stainless steel assembly | |



High Temperature Stainless and Stainless Nuclear Grade

Never-Seez High Temperature Stainless is a stainless steel, graphite, aluminum based anti-seize compound formulated to protect against seizure and galling, galvanic and severe environmental corrosion. **Products were specifically designed for applications that cannot use nickel-based products.**

Never-Seez High Temperature Stainless Nuclear Grade

is the premium grade anti-seize compound developed in conjunction with Electricite de France (EDF) for use in nuclear power plants to protect nuclear components from seizure and galling. Each production lot of Nuclear Grade is tested for contaminants of sulfur, halogens and low-melt metals and each container is labeled with the lot number to certify purity.

Specification; tested to:

- GE Nuclear Energy D50YP12

Upper Temperature Limit: 2200°F

Torque Reduction Value = 13%

Benefits:

- Excellent resistance to corrosion
- Prevents seizure at high temperatures
- Resists galvanic action between dissimilar metals
- Speeds disassembly
- Prevents galling
- Resists alkaline solutions, chemical and acid vapors, steam and iodized water

Industry Use:

- | | |
|--|--------------------------------|
| • Fasteners in steel mills | • Reactor bolts |
| • Power generating & Nuclear plants | • Turbine bolts & Flange seals |
| • Stainless steel pipe fittings, flanges, pump fittings and unions | • Gauges & fittings |
| • Fasteners in exhaust manifolds | • Gland studs |
| | • Preheat chambers |

Common Applications Considerations • Chain Drives • Mounting bolts • Fasteners • Flanges • Sluice gate • Shaft keys



Black Moly

Black Moly lubricant is designed for industrial applications requiring non-destructive assembly and disassembly of components. This multi-purpose lubricant contains a high concentration of molybdenum disulfide, making it the most effective choice for extreme pressure applications – such as under heavy loads and slow speeds which can result in boundary lubrication failure. Black Moly withstands pressures to 500,000 PSI.

Upper Temperature Limit: 750°F

Torque Reduction Value = 24%

Benefits:

- Protects and lubricates metal parts in high friction, high pressure environments
- A simple coating provides smooth break-in of new and rebuilt equipment

Industry Use:

- Engine assembly & break-in
- Press fit assemblies
- Railroad applications
- Machine tool parts
- Highly loaded bearings <500 RPM
- Hot exhaust fans
- Adjusting screws
- Crushing mills
- Steel forming gates & slides
- Fork lifts
- Truck & Trailer
- Mining equipment
- Shovel clevis pins
- Wind mills



Blue Moly

Blue Moly is designed for applications requiring non-destructive assembly and disassembly where combinations of high loads, high temperatures and low speeds are encountered to reduce friction during the assembly of press-fit components. Blue Moly withstands pressures of 300,000 PSI. The exclusive combination of molybdenum disulfide and pure nickel flake suspended in a premium-grade grease works in a wide range of applications. Blue Moly is especially recommended for those applications in which graphite, zinc, lead, and copper are prohibited or undesirable. The addition of special corrosion inhibitors makes Blue Moly an effective choice of use in harsh environments.

Upper Temperature Limit: 1500°F

Torque Reduction Value = 19%

Benefits:

- Excellent protection against extreme pressure
- Unique blue color allows for easy visual inspection

Industry Use:

- Heavy construction equipment
- Aircraft components
- Stainless steel fasteners & slow moving parts
- Automotive engine bolts & body fasteners
- Stainless steel flange & pump bolts
- Chemical processing machinery
- Gasket dressing
- Military equipment



Mariner's Choice

Never-Seez Mariner's Choice prevents rust, galling, and galvanic corrosion in salt water, salt air, and high-moisture environments. Specially formulated for wet applications. This product was developed from years of experience working with marine engineers to provide superior parts protection in applications exposed to salt water. Mariner's Choice is the best choice for protection above and below the waterline without polluting the environment.

Upper Temperature Limit: 2450°F

Torque Reduction Value = 41%

Benefits:

- Excellent protection from salt water and fresh water
- Excellent resistance to water washout
- Inhibits galvanic corrosion
- Compatible with soft metals

Industry Use:

- Bilge piping
- Water pump gaskets & flanges
- Screw shafts
- Prop shaft bearing housings
- Winches, cables & anchor chains
- Hatch covers
- Porthole studs
- Offshore rigging
- Suspension bridges & bridge bearings
- Agricultural & farm equipment
- Car washes
- Naval ship Applications
- Boat builders & yards
- Steam traps



Pipe Compound with PTFE

Never-Seez Pipe Compound is a superior lubricating and anti-seize compound formulated to provide maximum thread lubrication in a wide range of pipe threads and fittings. The use of polytetrafluoroethylene (PTFE) and other sealant enhancing additives in Never-Seez Pipe Compound allows greater thread engagement and more positive sealing. These benefits assure more reliable sealing on "start-up" and throughout the life of the assembly. Pipe Compound also prevents corrosion and galling of threads for easy disassembly. Recommended for use on black iron, galvanized stainless steel, and high pressure steam pipes in contact with cast iron, malleable, brass, stainless steel or galvanized fittings.

Specifications: meets Federal TT-S-1732

Upper Temperature Limit: 525°F

Torque Reduction Value = 14%

Benefits:

- Prevents corrosion, galling, and seizing
- Assures easy disassembly
- Suitable for contact with water, natural and propane gas, air, steam, and hydraulic oils
- Suitable for all combinations of pipe and fittings
- Non-toxic and non-hazardous

Industry Use:

- Water lines, non-potable
- Steam pipe fittings
- Hydraulic lines & fittings
- Pneumatic systems
- Gas utility lines
- Pipe & valve assemblies

White Food Grade with PTFE

White Food Grade with polytetrafluoroethylene (PTFE) is a premium quality lubricant composed entirely of ingredients that meet FDA requirements for applications in which incidental food contact is possible. It has been NSF International Registered with a H-1 Rating for use in establishments operating under the federal Meat and Poultry Products Inspection Program. The unique dispersion of FDA approved PTFE provides additional lubricity especially when a thin film of lubricant is desirable. White Food Grade with PTFE is virtually odorless, colorless, and tasteless. It is a "multipurpose" lubricant for varied services within a food or biomedical handling plant.

Specifications: NSF H-1 Registered

Upper Temperature Limit: 475°F

Torque Reduction Value = 30%

Benefits:

- Prevents stainless steel galling
- Provides a seal against entrance of liquids in bearings
- Keeps parts working longer with less wear
- Prevents rust and corrosion
- Resists water and chemical washout

Industry Use:

- Bakeries
- Breweries
- Cosmetic packagers
- Dairy food processors
- Food restaurants
- Seafood processors
- Meat processing & packaging
- Pet food manufacturers
- Pharmaceutical production
- Blender shafts
- Kettle valves
- Chain & conveyor shafts

High Temperature Bearing Lubricant

Never-Seez High Temperature Bearing Lubricant is an exclusive combination of a specially formulated high temperature grease and lubricating enhancers that provide maximum high pressure resistance and long-lasting lubrications at temperatures. High Temperature Bearing Lubricant is recommended for ball and roller bearings, bushings, open, and sealed bearings.

Upper Temperature Limit: 1000°F

Benefits:

- Bentonite and graphite based NLGI-2 grease has no "dropping point"; it will not melt and run
- Good extreme pressure characteristics
- Contains no metallic particles

Industry Use:

- Oven wheel bearings
- Process oven bearings
- Heat treat ovens & furnaces
- Kiln ovens & casters
- Oven damper controls
- High temperature exhaust fans
- Ore carts

- Screws
- Pivot connections
- Gate & cock valves
- Pour ladles
- Hoists & Cranes
- Press fits
- Bushings



Why use Never-Seez Compounds?

1. Effective as an anti-seize compound to 2450°F and in temperatures as low as -298°F (cryogenic applications).
2. Resists water washout and salt spray exposure.
3. Since it is a stable, homogeneous mixture it will not harden, separate, or evaporate.
4. Non-corrosive and inert. Resists galvanic action between dissimilar metals, eliminates metal to metal electrolysis and pitting.
5. Functions as a sealant by reducing friction and by making tighter joints possible.
6. Protects against carbon fusion – reduces diesel and engine down-time.
7. Unusual spreadability. Very economical. Up to 6,480 sq. in. coverage per lb. based on film thickness of 4 mils.
8. Inert to most gases including propane, butane, natural gas, helium, freon and nitrogen.
9. Excellent for preventing seizure of stainless steel parts.
10. Impervious to strong alkaline solutions.
11. Very low coefficient of friction. Excellent lubricity.
12. Resists most chemical and acid vapors, road salt, steam and salt water.
13. Does not deteriorate with age when stored unopened at temperatures below 120°F (49°C).
14. Quality and performance are guaranteed for five years from the date of manufacture on unopened containers.



Bostik Hand & Tool Towels is a great revolutionary, waterless cleaning towel. Cleans Never-Seez from hands and tools in seconds with no rinsing, drying or residue.

The answer to costly mechanical maintenance

Protects parts and makes disassembly easy



PREVENTS:

Seizure • Galling • Rust • Fretting • Pitting • Corrosion

Available Internationally.

Call Customer Service for nearest distributor:

800.726.7845

Scan for Product and MSDS sheets



Made in USA

Bostik, Inc.

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Wauwatosa, WI 53226 USA
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Bostik, Inc. with a policy of continuous improvement, reserves the right to change specifications as our technology progresses. We are not responsible for the misuse and/or misapplication of our products.

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Bostik

White Food Grade with PTFE

Product Description

Never-Seez® White Food Grade with PTFE is a premium quality lubricant composed entirely of ingredients which meet FDA requirements where incidental food contact is possible. It has been approved by the U.S. Department of Agriculture for use in establishments operating under the Federal Meat and Poultry Products Inspection Program. The unique dispersion of FDA authorized PTFE provides additional lubricity especially where a thin film of lubricant is desirable. Never-Seez White Food Grade with PTFE is virtually odorless, colorless, and tasteless. It is a "multi-purpose" lubricant for varied services within a food handling plant.

Product Benefits

- Provides maximum lubrication up to 475°F
- Keeps parts working longer with less wear
- Prevents rust and corrosion
- Resists water and chemical washout
- Non-staining
- Provides a seal against entrance of liquids in bearings
- Suitable for pipe threads used with potable water—will not impart an odor or taste

Product Applications

- Nuts, bolts, screws
- Pipe fittings
- Stainless steel fittings
- Valve stems and assemblies
- Pump gears
- Chain drives
- Gaskets
- Press fit assemblies
- Conveyor and oven bearings
- Packaging machinery
- Worm gears
- Slow speed or highly loaded bearings <500 RPM

Limitations

- High speed bearings
- Not approved for continuous contact with food

Other Anti-Seize Lubricants

- Regular Grade
- Pure Nickel Special
- Nuclear Grade, Nickel Special
- High Temp Stainless
- High Temp Stainless, Nuclear Certified
- Blue Moly
- Black Moly
- Red Bearing Lubricant
- High Temperature Bearing Lubricant
- Pipe Compound with Teflon®
- Mariner's Choice
- Heavy Metal Free
- PetroChem Grade

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Technical Specifications

Color	White	
Temperature Range, °F (°C)	-5°F to 475°F (-21°C to 246°C)	
Thickener Type	Aluminum Complex	
Particle Size, mil (microns)	2.0 max. (50 µ)	
Density, (g/cm ³)	0.91 to 1.03	
		ASTM Test Method
Flash Point, °F (°C)	430°F (221°C)	D-92
Copper Corrosion Test @ 212°F (100°C), 24 hrs.	1b	D-130
Worked Penetration (60 strokes @ 77°F (25°C)	255-295	D-217
NGLI Grade	2	D-217
Dropping Point, (minimum) °F (°C)	>450°F (232°C)	D-2265
Torque Coefficient, k factor	0.13	
Water Washout, % loss @ 175°F (79°C)	<5	D-1264
Bearing Rust Test	Pass	D-1743
Timken OK Load, lb.	40	D-2509
Four Ball EP Load Wear Index	43.7	D-2596
	Last Non-seizure Load (scar)	63 kgf (0.36 mm)
	Last Seizure Load (scar)	250 kgf (2.42 mm)
	Weld Load	315 kgf

Specifications: Certified NSF H-1

Ingredients: Contains food grade grease, PTFE, and zinc oxide.

Shelf Life: Never-Seez® White Food Grade with PTFE does not deteriorate with age when stored unopened at temperatures below 120°F (49°C). Quality and performance are guaranteed for five years from the date of manufacture on unopened containers.

How Never-Seez White Food Grade with PTFE Affects Torque:

Compared to unlubricated fasteners, the use of Never-Seez White Food Grade with PTFE can be viewed 2 ways:

- (1) It provides up to 30% MORE clamping force when applying the SAME amount of torque.
- (2) It provides the SAME clamping force when applying up to 30% LESS torque.

IMPORTANT

- In order to best represent typical torque reduction values, Bostik references a "K-Factor" for unlubricated carbon steel fasteners of 0.185.
- Proper torque is critical and, if not clearly understood, users may over-torque their fasteners which may lead to costly damage. BOSTIK is not liable for any damages incurred. Refer to the Bostik standard warranty for details.

Use in accordance with Material Safety Data Sheet.

Ordering Information:

NEVER-SEEZ® WHITE FOOD GRADE WITH PTFE

STOCK NUMBER	DESCRIPTION	SIZE
NSWT-14	Flat Top	14 oz.
NSWT-1C	Cartridge for Standard Grease Gun	14.1 oz.
NSWT-7	Flat Top	7 lbs.
NSWT-120B	Drum	120 lbs.
NSWT-400B	Drum	400 lbs.

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Blue Moly

Product Description

Never-Seez® Blue Moly is a superior lubricating and anti-seize compound formulated to provide maximum parts protection in a wide range of applications. The exclusive combination of molybdenum disulfide and pure nickel powder suspended in a premium-grade grease provides both excellent lubricity and extreme pressure resistance. Blue Moly is especially recommended for those applications in which graphite, lead, and copper are prohibited or undesirable. The addition of special corrosion inhibitors allows Blue Moly to be used in harsh environments.

Product Benefits

- Excellent protection against extreme pressure.
- Excellent temperature protection, up to 1500°F.
- Unique blue color allows for easy visual inspection.
- Contains no graphite, lead or copper, therefore Blue Moly can be used in applications where these are undesirable or prohibited.

Product Applications

- Metal fittings
- Aircraft components
- Valves
- Stainless steel fasteners and slow moving parts
- Automotive engine bolts and body fasteners
- Stainless steel flange and pump bolts
- Chemical processing machinery
- Gasket dressing
- Assembly of dissimilar metals

Limitations

- Never-Seez® Blue Moly is not recommended for high speed bearings. Never-Seez® Red Bearing Lubricant is suggested for these applications.
- For temperature resistance to 2400°F (1316°C), use Never-Seez® Pure Nickel Special.

Other Anti-Seize Lubricants

- Regular Grade
- Nuclear Grade, Nickel Special
- Pure Nickel Special
- High Temp Stainless
- High Temp Stainless, Nuclear Certified
- Marine Grade
- Black Moly Lubricant
- Red Bearing Lubricant
- White Food Grade with PTFE
- High Temperature Bearing Lubricant
- Pipe Compound with Teflon®



Technical Specifications

Color	Blue	
Temperature Range, °F (°C)	-150°F to 1500°F (-101°C to 815°C)	
Solvent Resistance	Excellent in fresh or salt water	
Particle Size, mil (microns)	2 maximum (50 µ)	
Density (g/cm ³)	1.14 to 1.20	
		ASTM Test Method
NLGI Grade	1/2	D-217
Worked Penetration (60 Strokes)	300-350	D-217
Flash Point, °F (°C)	>482°F (>250°C)	D-92
Dropping Point, °F (°C)	360°F (182°C)	D-566
Copper Corrosion Test @ 212°F (100°C), 24 hours	No Corrosion	D-130-83
Torque Coefficient, k factor	0.150	
Coefficient of Friction (4 ball), 167°F (75°C)	0.0824	D-2266

Ingredients: Contains a special, high-quality bearing grease with pure nickel powder, molybdenum sulfide and aluminum flake.

Shelf Life: Never-Seez® Blue Moly does not deteriorate with age when stored unopened at temperatures below 120°F (49°C). Quality and performance are guaranteed for five years from the date of manufacture on unopened containers.

Use in accordance with Material Safety Data Sheet.

Ordering Information:

BLUE MOLY

STOCK NUMBER	DESCRIPTION	SIZE
NBBT-8	Brush Top	8 oz.
NBBT-16	Brush Top	1 lb.
NB-160	Flat Top	1 lb.
NB-42B	Pail	42 lb.
NB-425B	Drum	425lbs.

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Pipe Compound with Teflon®

Product Description

Never-Seez® Pipe Compound with Teflon® is a superior lubricating and anti-seize compound formulated to provide maximum thread lubrication in a wide range of pipe threads and fittings. The use of Teflon® and other sealant enhancing additives in Never-Seez® Pipe Compound allows greater thread engagement and more positive sealing. Never-Seez Pipe Compound prevents corrosion and galling of threads for easy disassembly. Recommended for use on blackiron, galvanized stainless steel, and high pressure steam pipes in contact with malleable cast iron, brass, stainless steel and galvanized fittings.

Product Benefits

- Prevents corrosion, galling and seizing
- Assures easy disassembly
- Suitable for water, natural gas, air, steam and hydraulic oils
- Suitable for all combinations of pipe and fittings
- Non-toxic and non-hazardous

Product Applications

- Water lines, non-potable
- Sewerage and irrigation piping
- Steam pipe fittings
- Hydraulic lines and fittings
- Pneumatic systems
- Natural and propane gas lines

Limitations

- Do not use on oxygen systems
- For temperatures above 525°F (274°C) use Never-Seez® Regular Grade or Pure Nickel Special

Other Anti-Seize Lubricants

- Regular Grade
- Nuclear Grade, Nickel Special
- Pure Nickel Special
- High Temp Stainless
- High Temp Stainless, Nuclear Certified
- Mariner's Choice
- Blue Moly Lubricant
- Black Moly Lubricant
- Red Bearing Lubricant
- White Food Grade with PTFE
- High Temperature Bearing Lubricant
- Heavy Metal Free
- PetroChem Grade

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Technical Specifications

Color	Off White	
Temperature Range, °F (°C)	-50°F to 525°F (-45.5°C to 274°C)	
Thickener Type	Lithium Soap	
Particle Size, mil (microns)	2.0 max. (50 µ)	
Water Resistance	Excellent	
Density, (g/cm3)	1.16 to 1.25	
		ASTM Test Method
Flash Point, °F (°C)	>475°F (>246°C)	D-92
Copper Corrosion Test @ 212°F (100°C), 24 hrs.	No corrosion	D-130
Worked Penetration (60 strokes @ 77°F (25°C)	275-325	D-217
NGLI Grade	1/2	D-217
Dropping Point, (minimum) °F (°C)	360°F (182°C)	D-566
Torque Coefficient, k factor	0.16	
Four Ball EP Load Wear Index	53.9	D-2596
Last Non-seizure Load (scar)	126 kgf (0.41 mm)	
Last Seizure Load (scar)	160 kgf (1.17 mm)	
Weld Load	200 kgf	

Specifications: Federal Spec. TT-S-1732.

Ingredients: Contains a special, high-quality grease with Teflon®, mica, and zinc oxide.

Shelf Life: Never-Seez® Pipe Compound does not deteriorate with age when stored unopened at temperatures below 120°F (49°C). Quality and performance are guaranteed for five years from the date of manufacture on unopened containers.

How Never-Seez Pipe Compound with Teflon Affects Torque:

Compared to unlubricated fasteners, the use of Never-Seez Pipe Compound with Teflon can be viewed 2 ways:

- (1) It provides up to 14% MORE clamping force when applying the SAME amount of torque!
- (2) It provides the SAME clamping force when applying up to 14% LESS torque!

IMPORTANT!

- In order to best represent typical torque reduction values, Bostik references a “K-Factor” for unlubricated carbon steel fasteners of 0.185.
- Proper torque is critical and, if not clearly understood, users may over-torque their fasteners which may lead to costly damage. BOSTIK is not liable for any damages incurred. Refer to the Bostik standard warranty for details.

Use in accordance with Material Safety Data Sheet.

Ordering Information:

NEVER-SEEZ® PIPE COMPOUND WITH TEFLON®

STOCK NUMBER	DESCRIPTION	SIZE
NPBT-8	Brush Top Can	8 oz.
NPBT-16	Brush Top Can	1 lb.

Bostik, Inc.

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