

Pure Nickel Special, Nuclear Grade

Product Description

Never-Seez® Pure Nickel Special, Nuclear Grade is specially tested and certified pure for use in nuclear power plants. Each production lot of Nuclear Grade Never-Seez is tested for contaminants of sulfur, halogens and low-melt metals and each container is labeled with the lot number that certifies purity.

Pure Nickel Special, Nuclear Grade 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.

Product Benefits

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

Product 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, Nuclear Grade 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.



Technical Specifications

Color	Silver Gray	
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 m)	
Density, (g/cm3)	1.22 to 1.28	
	ASTM Test Method	
Flash Point, °F (°C)	>300°F (>149°C)	D-92
Copper Corrosion Test@ 212°F (100°C), 24 hrs.	No corrosion	D-130
Worked Penetration, 60 strokes @25°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	<2	D-1264
	@ 175°F	<5
Coefficient of Friction @ 167°F (75°C), Four 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

Specifications: G.E. Atomic Equipment Division, #D50YP12; G.E. D6Y6; MIL-A-907; Ford ESE-M12A4-A; Ford WSD-M13P8-A1; Boeing BAC 5008 Type 7-3; U.T. Pratt & Whitney PWA 36053-1; G.E. Engine A50-TF198 Class A; Garrett Engine PCS5721.

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, Nuclear Grade 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 Pure Nickel Special, Nuclear Grade Affects Torque:

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

- (1) It provides up to 15% MORE clamping force when applying the SAME amount of torque!
- (2) It provides the SAME clamping force when applying up to 15% 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® PURE NICKEL SPECIAL, NUCLEAR GRADE

STOCK NUMBER	DESCRIPTION	SIZE
NG-165	Flat Top	1 lb.
NG-8	Flat Top	8 lb.
NGBT-8	Brush Top	8 oz.
NGBT-16	Brush Top	1 lb.

Maximum Specification Limits:

Arsenic, As	<50 ppm
Antimony, Sb	<50 ppm
Bismuth, Bi	<50 ppm
Cadmium, Cd	<50 ppm
Gallium, Ga	<50 ppm
Indium, In	<50 ppm
Lead, Pb	<10 ppm
Mercury, Hg	<1 ppm
Silver, Ag	<50 ppm
Tin, Sn	<50 ppm
Zinc, Zn	<50ppm
Total Chlorine	<200 ppm
Total Nitrate	<200 ppm
Total Sulfur	<200 ppm
Total Phosphorous	<200 ppm

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Bostik, Inc.

211 Boston Street
Middleton, MA 01949 USA
Customer Service or Technical
Service: 1-800-7/BOSTIK
Fax: 978-750-7293
www.bostik-us.com