Bostik
smart adhesives

NEVER-SEEZ®

NICKEL NUCLEAR GRADE

KEY FEATURES

- Protects in extreme heat up to 2400°F
- Protects against corrosion, rust and pitting
- Meets GE Nuclear Energy D50YP12 and D50YP5B Specification, as well as GE EMPIS D6Y6C1 Specification

DESCRIPTION

Never-Seez® Nickel 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.

Nickel 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.

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

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



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 µ)	
Density (g/cm³)	1.22 to 1.28	
		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
Torque Coefficient, k factor	0.158	
Water Washout, % loss @100°F (40 °C) @ 175°F (80 °C)	<2.0% <5.0%	D-1264
Coefficient of Friction @ 167°F (75°C), Four Ball	0.092	D-2266
Four Ball EP — Load Wear Index	68	D-2596
Four Ball EP — Last Non-seizure Load (scar)	79 kgf (0.59 mm)	D-2596
Four Ball EP — Last Seizure Load (scar)	250 kgf (1.46 mm)	D-2596
Four Ball EP — Weld Load	315 kgf	D-2596

Specifications: GE Atomic Equipment Division, D50YP12, D50YP5B and GE D6Y6C1

- Steam generators
- Assembly of dissimilar metals

LIMITATIONS

- Never-Seez® Nickel Nuclear Grade is not recomended for high speed bearings.
- Not recommended for use in pure oxygen and/or oxygen rich systems.
- In applications where indirect 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® Nickel 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, under normal ussage and storage.

HOW NEVER-SEEZ NICKEL NUCLEAR GRADE AFFECTS TORQUE:

Compared to unlubricated fasteners, the use of Never-Seez® Nickel Nuclear Grade 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.

LIMITED WARRANTY

Limited Warranty found at www.bostik.com/us or call 800-726-7845. TO THE MAXIMUM EXTENT ALLOWED BY LAW, BOSTIK DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. UNLESS OTHERWISE STATED IN THE LIMITED WARRANTY, THE SOLE REMEDY FOR BREACH OF WARRANTY IS REPLACEMENT OF THE PRODUCT OR REFUND OF THE BUYER'S PURCHASE PRICE. BOSTIK DISCLAIMS ANY LIABILITY FOR DIRECT, INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES TO THE MAXIMUM EXTENT ALLOWED BY LAW. DISCLAIMERS OF IMPLIED WARRANTIES MAY NOT BE APPLICABLE TO CERTAIN CLASSES OF BUYERS AND SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. It is the buyer's obligation to test the suitability of the product for an intended use prior to using it. The Limited Warranty extends only to the original purchaser and is not transferable or assignable. Any claim for a defective product must be filed within 30 days of discovery of a problem, and must be submitted with written proof of purchase.

MAXIMUM SPECIFICATION LIMITS	
Arsenic, As	<20 ppm
Antimony, Sb	<20 ppm
Bismuth, Bi	<20 ppm
Cadmium, Cd	<20 ppm
Gallium, Ga	<20 ppm
Indium, In	<20 ppm
Lead, Pb	<5 ppm
Mercury, Hg	<1 ppm
Silver, Ag	<20 ppm
Tin, Sn	<20 ppm
Zinc, Zn	<20 ppm
Total Chlorine	<200 ppm
Total Nitrate	<200 ppm
Total Sulfur	<200 ppm
Total Phosphorous	<200 ppm

ORDERING INFORMATION

NEVER-SEEZ® Nickel Nuclear Grade

Stock Number	Description	Size	Item #
NG-165	Flat Top	1 lb.	BNNNS1-FTC12
NGBT-8	Brush Top	8 oz.	BNNNS8BTC12



BOSTIK HOTLINE

Smart help
1-800-726-7845

Bostik, Inc.
11320 W Watertown Plank Road
Wauwatosa, WI 53226
www.bostik.com/us

N24-02.22.17