

# 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.

**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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