

High Temperature Stainless, Nuclear Grade

Product Description

Never-Seez® High Temperature Stainless, Nuclear Grade 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.

Certified pure for use in nuclear power plants, each production lot of Never-Seez® High Temperature Stainless, Nuclear Grade is tested for contaminants and each container is labeled with the lot number that certifies purity.

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, power and nuclear 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, 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 with PTFE.

Other Anti-Seize Lubricants

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

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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 (50µ)	
Density (g/cm3)	1.21 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 @ 77°F (25°C)	265-315	D-217
NLGI Grade	1/2	D-217
Dropping Point, °F (°C)	360°F (182°C)	D-566
Torque Coefficient, k factor	0.16	
Water Washout, % loss @ 100°F	<2	D-1264
	@ 175°F	<5
Four Ball EP	Load Wear Index	43.6
	Last Non-seizure Load (scar)	32.0 kgf (0.40 mm)
	Last Seizure Load (scar)	250 kgf (2.14 mm)
	Weld Load	315 kgf

Specifications: G.E. Atomic Equipment Division, #D50YP12; MIL-A-907.

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

Shelf Life: Never-Seez® High Temperature Stainless, 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® HIGH TEMPERATURE STAINLESS, NUCLEAR GRADE		
DESCRIPTION	STOCK NUMBER	SIZE
NGSS-160 NF	Flat Top	1 lb.
NGSS-4 NF	Flat Top	4 lbs.
NGSS-8 NF	Flat Top	8 lbs.
NGSS-8BT NF	Brush Top	8 oz.
NGSS-16BT NF	Brush Top	1 lb.
NGSS-42B NF	Pail	42 lbs.

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	<50 ppm
Total Chlorine	<200 ppm
Total Nitrate	<200 ppm
Total Sulfur	<200 ppm
Total Phosphorous	<200 ppm

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