

Q & A

 **NEVER-SEEZ<sup>®</sup>**  
Anti-Seize & Lubricating Compound

Responses to frequently  
asked questions about  
anti-seize products  
from the industry  
leader.

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## *What is Never•Seez®?*

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Never•Seez® is a family of anti-seize and lubricating compounds that includes 11 different product formulations, each compounded to solve specific industrial problems associated with metal wear, corrosion and seizure.

Each Never•Seez compound has as its base a hydrocarbon grease carrier that provides lubrication and some heat resistance for metal parts. Lubricant particles add to the base grease extend the lubricity of the compound, particularly after torque-down and exposure to higher heat. The real character of the formulation is determined by the addition of fine particles, often metal, that give the compound its anti-seizing properties and make it suitable for specific operating environments. These fine particles actually create a space between closely fitting metal parts, and in doing so, prevent fusion and galling that leads to metal seizure.

The combination of hydrocarbon grease base, additional lubricants, and fine fillers in each Never•Seez product protects against oxidation and rust, keeps parts moving smoothly and allows for easy assembly and corrosion-free disassembly.

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## *Has the Never•Seez formula changed over the years?*

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No. The formulas are the same but improvements have been made in the manufacturing processes and raw materials. You may have noticed the changes. Never•Seez is more consistent batch to batch thanks to electronic instrumentation in manufacturing that closely controls the mixing process. Also, we upgraded our base grease to allow consistently lower particle size and consistent grease penetration. And to ensure that quality standards are met batch to batch, we now test batches much more frequently.

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## *How does Never•Seez differ from conventional anti-seize technology?*

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Consistency of our manufacturing processes is a major difference. Unlike competitive brands, the Never•Seez blending process has been engineered to strictly control the timing of the addition of each raw material.

What's more, Never•Seez products are manufactured in 55 gallon drums rather than larger mixing containers. The result is a consistent product of optimum quality batch-to-batch.

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## *Has Bostik reduced the solids content of Never•Seez?*

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No. Again the formula is the same. However, the testing method has been changed to reflect the contents more accurately. Previous test methods reported the grease solids (the thickening soap) as part of the total 48.2% solids content. Today we report solids content at 42.2%, without the 6% grease solids.

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***I've noticed a small amount of oil separation at the top of the Never•Seez grease. Does this indicate a problem?***

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No. Separation is actually a normal and desirable function of an anti-seize compound. Grease lubricates by the oil separating from the grease and lubricating before being reabsorbed. This constant process of some oil separation, lubrication and reabsorption is the sign of a well formulated product.

However, if an anti-seize compound does demonstrate significant oil separation it is probably a lower performance mineral oil based product. Mineral oil products are subject to water wash out and displacement and consequently are less effective than Never•Seez products in protecting against rust and corrosion.

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***Why were the temperature limits for Regular Grade Never•Seez lowered to 1800°F?***

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At temperatures about 1800°F the copper in Regular Grade Never•Seez vaporizes. These fumes are toxic, so special warning labels are specified by OSHA.

To avoid special labeling and to reduce the risk of exposure to users (although exposure at such elevated temperatures is extremely unlikely) we decided to simply reduce the recommended temperature exposure to a safer level. The same holds true for temperature limits on Nickel Special Never•Seez that were lowered from 2600°F to 2400°F.

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***At one time Never•Seez Regular Grade met MIL-A-907-D. Current literature refers to MIL-A-907E. Has something changed?***

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No. Military specifications take two forms—one type specifies ***composition and*** one type specifies ***performance***. MIL-A-907 is a performance specification and each time it is revised it receives a subsequent letter change, i.e. D to E with E being the fifth revision. The prior specification is automatically voided when a revision is made.

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***Has Never•Seez aerosol changed?***

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Yes. The solvent system has been changed for safety reasons. Previously, we used methylene chloride as the solvent carrier. As you're probably aware, methylene chloride, although still legal to use, is a suspected carcinogen. Since user safety is a major concern at Bostik, we switched to 1,1,1-trichloroethane as the solvent. Due to an undesirable reaction between 1,1,1-trichloroethane and aluminum, the aluminum was then eliminated from the ingredients. This is the reason for the change in color from grey to copper. Bostik removed 1,1,1-trichloroethane when it was classified as an ozone depleting chemical and replaced it with a hydrocarbon propellant/solvent system. We added back the aluminum to the formula to restore its original color.

***We welcome questions about Never•Seez products and technology. Please contact your local Never•Seez representative or call Bostik directly at 1-800-726-7845.***



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