

# NIKAL<sup>®</sup> NUCLEAR

High Temperature Anti-Seize & Gasket Compound



## TECHNICAL DATA SHEET

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### DESCRIPTION

**NIKAL<sup>®</sup> NUCLEAR** Grade Anti-Seize and Gasket Compound is a premium lubricant that contains chemically pure nickel flake in an ashless synthetic fluid to protect threaded connections against galling, seizure and heat freeze. Also offers superior protection against rust and corrosion.

**NIKAL NUCLEAR** Grade contains no copper, lead, graphite, or other ingredients that may poison reactor catalyst beds, and is formulated for use in Class 1, 2 and 3 nonwetted applications for auxiliary equipment in nuclear power plants.

**NIKAL NUCLEAR** Grade products are accompanied by a "Certificate of Conformance" that details purity level standards met per batch.

**NIKAL NUCLEAR** Grade has been approved by General Electric and Westinghouse for use with their turbine systems in nuclear applications, and conforms to the requirements of NAVSEAINST 9210.36B.

### APPLICATIONS

Used extensively in nuclear power generator facilities on land and sea where on CERTIFIED products are allowed.

**Note: Not for use on oxygen lines.**

### CERTIFICATIONS

Military Specification MIL-PFR-907E

#### OPERATING RANGE

-54°C to 1427°C (-65°F to 2600°F)



### CHARACTERISTICS

- Contains no lead, copper or graphite
- Prevents seizure up to 1427°C (2600 °F)
- Protects against rust and corrosion
- Chemically resistant
- Acid resistant
- Exceeds all purity level standards for nuclear grade products - CERTIFIED
- May be used with ammonia, acetylene and vinyl monomers
- Color - Silver

### PRODUCT SPECIFICATIONS

Thickener	Silica
Fluid Type	Synthetic
Color/Appearance	Silver/Grey Paste
Dropping Point (ASTM D566)	None
Density (kg/liter), Typical	1.10
Specific Gravity	1.10
Oil Separation, Wt. % Loss @ 100°C (212°F)	<2.0
Flash Point (ASTM D-92)	>221°C (430°F)
Coefficient of Friction (Stainless Steel)	0.15
NLGI Grade	1 to 1.5
Penetration @ 25°C (77°F) (ASTM D-217)	300 - 330
Copper Strip Corrosion (ASTM D-4048)	1A
Shell 4-Ball (ASTM D-2596)	
Weld Point, kgf	160

### PACKAGING

Inventory Code	Container Size	Container
13502	1/2 lb	Brush-Top Can

### LIMITED WARRANTY

Jet-Lube of Canada makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in Jet-Lube of Canada Ltd. materials and workmanship.

This Limited Express Warranty is expressly in lieu of any other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligation on the part of Jet-Lube of Canada Ltd.

The sole remedy for breach of the Limited Express Warranty shall be the refund of the purchase price. All other liability is negated and disclaimed, and Jet-Lube of Canada Ltd. shall not be liable for incidental or consequential damages.