

NIKAL[®]

High Temperature Anti-Seize Compound



TECHNICAL DATA SHEET

3820 - 97 Street, NW, Edmonton, Alberta Canada T6E 5S8 • Phone (780) 463-7441 Toll Free 1-888-771-7775 Fax (780) 463-7454 Toll Free 1-888-449-4449
email: sales@jetlubecanada.com Web site: www.jetlubecanada.com

DESCRIPTION

NIKAL[®] is a premium quality anti-seize and gasket compound for use in extreme temperatures and hostile environments. The carrier of this remarkable compound volatilizes upon exposure to high temperatures and deposits a nickel metallic plating on threaded connections, preventing metal-to-metal contact and guarding against seizure and galling.

NIKAL contains pure nickel flake and a nearly inert dispersing solid in a high quality aluminum complex base grease which provides unsurpassed protection from rust by water penetration or water washoff.

NIKAL does not contain copper, lead, graphite, chlorides or other halogens, phosphorous, or silicones. It may be safely used with ammonia, acetylene, and vinyl monomers which are unstable in the presence of copper. **NIKAL** contains no graphite. This is an additional benefit on stainless steel applications when temperatures exceed 550°F, as graphite would carbonize and weaken the steel. The solids packaged in **NIKAL** produces a matrix of particles which settle in successive layers or 'sandwich'. This allows the solids to serve as a lubricant, cushion and seal. This layering does not allow the welding under compaction that leads to seizure and galling.

APPLICATIONS

Used extensively in refineries, chemical plants, petrochemical plants, power generation facilities and other harsh environments on items such as:

Burner Tips	Reactor Bolts	Heat Exchangers
Manifolds	Furnace Hinges	Manhole Studs
Pipe Fittings		

NOTE: WHEN USING NIKAL ON FITTINGS APPLY COMPOUND TO BOTH MALE AND FEMALE THREADS.

CERTIFICATIONS

Military Specification MIL-PRF-907E

Not for use on oxygen or LPG lines.



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 inert
- Acid resistant
- Strong resistance to water washoff
- Brushable to -18°C (0°F)
- Will not run, drip, or settle out
- Color - Silver

PRODUCT SPECIFICATIONS

Grease Carrier	Aluminum Complex
Dropping Point (ASTM D566)	260°C (500°F)
Water Spray-Off (ASTM D4049)	<8.0%
Density (kg/liter), typical	1.10
Specific Gravity	1.10
Oil Separation, Wt. % Loss	Max 3.0
Penetration (ASTM D217)	
25°C (77°F)	290 - 320
-18°C (0°F)	235
NLGI Number (typical)	1.5
Corrosion Resistance (Modified ASTM B117)	
20% NaCl at 100°F, Hours Free From Corrosion	200+
Coefficient of Friction (1" 316 Stainless Steel)	0.15
Evaporation Loss, Wt. %	
24 Hours @ 100°C (212°F)	<1.0
Copper Strip Corrosion (ASTM D4048)	1A

PACKAGING

Inventory Code	Container Size	Container
13602	225 ml	Brush-Top
13604	1-Liter	Jar
13605	5-Liter	Pail
13615	15 liter	Pail
13655	55-Liter	Keg

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.