

# NIKAL<sup>®</sup>

## HIGH TEMPERATURE ANTI-SEIZE AND GASKET COMPOUND



### DESCRIPTION

NIKAL<sup>®</sup> 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 seizing and galling.

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

NIKAL does not contain copper, lead, graphite, chlorides or other halogens, phosphorus, 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, which is an additional benefit on stainless steel applications when temperatures exceed 550°F, as graphite can carburize the steel causing the steel to become much more susceptible to intergranular corrosion. The solids package in NIKAL produces a matrix of particles that 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.

- Contains no lead, copper or graphite
- Prevents seizure up to 2600°F (1427°C)
- Protects against rust and corrosion
- Chemically inert
- Acid resistant
- Strong resistance to water washoff
- Brushable to 0°F (-18°F)
- Will not run, drip or settle out.
- Color - Silver

### 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	

Conforms to Military Spec MIL-PRF-907F  
Service Rating: -65°F (-54°C) to 2600°F (1427°C)

**Note for use on oxygen lines.**

### PRODUCT CHARACTERISTICS

Thickener	Complex Blend
Fluid Type	Petroleum
Color/Appearance	Silver/Grey Paste
Dropping Point (ASTM D-566)	450°F (232°C)
Specific Gravity	1.20 typical
Density (lb/gal)	10.0 typical
Oil Separation	<5.0
Wt. % Loss @ 212°F (100°C)	
Flash Point (ASTM D-92)	>430°F (221°C)
K-Factor	.15
High Chrome Alloys @ 60,000 PSI	Contact Stress
NLGI Grade	1½
Penetration @77°F (ASTM D-217)	300 - 330
Copper Strip Corrosion (ASTM D-4048)	1A
4-Ball (ASTM D-2596)	
Weld Point, kgf	500
Load Wear Index	Not Applicable
Salt Fog Resistance (ASTM B-117)	+200
20% NaCl @ 100°F, Hrs. Free of Corrosion	

### PACKAGING

Part No.	Container Size	Container
13655	140 ml / 113 gm	Brush Top Can
13602	230 ml / 225 gm	Brush Top Can

### LIMITED WARRANTY

Jet-Lube, Inc. makes the Limited Express Warranty that at the date of delivery this product shall be free from defects in Jet-Lube, Inc. 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, Inc.

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, Inc. shall not be liable for incidental or consequential damages.

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