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Dependable - Professional - Successful

## **Nickel 328 Anti-Seize Thread Lubricant**

### **PRODUCT DESCRIPTION**

Nickel 328 is premium and anti-seize thread lubricant that contains 77% of solids.

It has combined years of professional joint assembly experience with expert lubrication engineering to formulate and produce field proven thread lubricants.

It performs well on carbon steel and alloy steel stud materials installed in carbon steel and stainless steel flanges.

Nickel 328 can be used on oxygen systems however the base carrier is a hydrocarbon and should not come in contact with the process.

### **PRODUCT BENEFITS**

- The high quality industrial compounds are unsurpassed in the two most fundamental areas of concern to proper joints assembly:
  - Make-up torque
  - Easy disassembly or break out torque after long-term exposure to high temperature and high load.
- Unequalled in its ability to reduce seizing and galling in high temperature applications
- It has low oxidation.
- Predictable and consistent friction factors

### **TORQUE COEFFICIENT VALUE (K FACTOR)**

Note: These factors assume the use of new hardware and good flange condition.

- 13000 lbs. load: 0.172

- From 13001 through 93000 lbs.: 0.144
- Above 93000 lbs. through 650,000 lbs.: 0.120

## PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	>300 °F
Temperature rating:	Cryogenic to 2500 °F
Vapor pressure:	NDA
Vapor Density:	NDA
Specific Gravity:	5.6
Melting Point of solids:	2% at 350 °F 3% at 1900-2000 °F 75% at 2500 °F
Solubility in Water:	Not soluble
Appearance:	Dark smooth gray paste
Odor:	Slight odor
Blending Oil Description:	Synthetic
Binding agent:	Soap thickened grease
Container size and weight:	Quart/32 oz./5lbs. Pint/16 oz./2.5 lbs. ½ Pint/8 oz./1.25 lbs.

**Note:** particular care has been taken to ensure that there is no ash or silica is left after the oil and grease have burned off.

Nickel 328 consists of a synergistic blend of three lubricating solids. Nickel is the vast majority of this blend and is stable to extreme temperatures. Nickel 328 contains no rust inhibition chemistry due to the fact these inhibitors will turn to ash at the temperatures at which the compound is rated.

## HANDLING AND STORAGE

- Store in cool dry area in original or equivalent container in accordance with all applicable regulations.
- Do not apply high heat or flame to container
- Do not store near acids or reactive substances

## STABILITY AND REACTIVITY

Stable: Yes

Conditions to avoid: exposure to strong acids, oxidizers or reducing atmospheres

Incompatibility: strong acids, oxidizers, reactive substances

Hazardous decomposition or byproducts: carbon monoxide, carbon dioxide, under special conditions nickel can react with carbon monoxide in reducing atmospheres to form nickel carbonyl, Ni(CO)<sub>4</sub> (toxic gas)