NIKAL® NUCLEAR

HIGH TEMPERATURE ANTI-SEIZE

DESCRIPTION

NIKAL® NUCLEAR is a premium anti-seize compound that contains chemically-pure nickel flake in a water resistant, complex soap thickened synthetic fluid that offers superior protection against rust and corrosion.

NIKAL® NUCLEAR contains a high carbon synthetic graphite, which has the benefit at elevated temperatures of providing lower torques upon disassembly. The carefully selected solids package in **NIKAL® NUCLEAR** produces a matrix of particles that settle in successive layers. This allows the solids to serve as a lubricant, cushion, and seal. This layering does not allow welding under pressure that leads to seizure and galling.

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

NIKAL® NUCLEAR is manufactured to exact standards in a certified ISO 9001 manufacturing and test facility. Each container is accompanied by a “Certificate of Conformance” that details purity level standard met per batch.

NIKAL® NUCLEAR 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.

- Contains no lead, copper, or molybdenum disulfide
- Prevents seizure up to 2600°F (1427°C)
- Protects against rust and corrosion
- Chemical and oxidation resistant
- Exceeds all purity level standards for nuclear grade products - CERTIFIED
- Traceability with 100% testing prior to packaging
- Conforms to MIL-PRF-907F
- Not for use on oxygen lines

APPLICATIONS

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

PRODUCT CHARACTERISTICS

Thickener	Complex Soap
Fluid Type	Synthetic
Color / Appearance	Silver/Grey Paste
Density (lb/gal)	9.65
Specific Gravity	1.16
Flash Point (ASTM D-92)	>430°F (221°C)
K-Factor*	0.15
Carbon Steel Alloy @ 60,000 PSI Contact Stress	
Penetration @77°F (ASTM D-217)	300 – 330
Copper Strip Corrosion (ASTM D-4048)	1A
4-Ball (ASTM D-2596)	
Weld Point, kgf	400 Typical
Service Rating	-65°F (-54°C) to 2600°F (1427°C)

* (T = K × D × F) where:

T = torque, K = nut factor, sometimes called the friction factor, D = bolt diameter, and F = bolt tension generated during tightening.