

NICKEL ANTI-SEIZE

PRODUCT DESCRIPTION

Vertex Nickel Anti-Seize is designed for primary applications in Steel Plants, Petrochemical & Fertilizer Unit Refineries experiencing extreme pressure and temperature challenges. The product has an extremely wide service temperature range of -30°C to + 1427°C. The product is an extreme pressure, anti-seize and anti-corrosion lubrication for equipment such as burner tips, furnace hinges, bolts, studs, pipe fittings, threaded connections, flanges, pump fittings and unions. Vertex Nickel Anti-Seize can be used as a heavy-duty anti seize thread compound for all high strength nickel alloys and stainless-steel hardware and fittings, providing superior lubrication and anti-seize protection at extreme high temperatures. The product can be safely used in the presence of ammonia, acetylene or vinyl monomers that are unstable in the presence of copper.

APPLICATIONS & BENEFITS

- Extremely wide service temperature ranges from -30°C to + 1427°C.
- Eliminates metal to metal contact and maintains lubrication qualities under wide variations of temperature and adverse operating conditions.
- Prevents galling, hardening, fretting, seizure, stripping, cold-welding, sintering, fusion of threads, bolt breaking and distortion.
- Enables fast and rapid assembly and non-destructive disassembly even after long term exposure to high temperatures and corrosive atmospheres.
- Does not contain any ingredients that may poison reactor catalyst beds such as copper, lead, sulphurs, chlorides, halogens, silicones.
- Highly resistant to hot and cold water, brine water, steam, humidity, moisture, dilute acids and alkalis, rust, corrosion, and oxidation.
- Safe to be used in the presence of ammonia, acetylene and vinyl monomers which are highly unstable in the presence of copper.
- Low friction properties reduce wear and friction increasing life of the equipment.
- Chemically inert and does not react with metals to cause pitting and prevents intergranular or electrolytic corrosion of high strength ferrous or non-ferrous materials.
- Recommended for use on all high strength alloys, stainless steel, and nickel alloys.
- Meets purity levels for use in nuclear class hardware.

PACK SIZES AVAILABLE

30GM, 500GM, 2.5 KG, 20 KG, 180KG

TYPICAL CHARACTERISTICS

Parameters	Value	Unit	Method
Type	Solid Lubricants, powders, and additives in oil		
Appearance	Smooth homogeneous paste		
Colour (1)	Dark Silver		
Penetration - worked	310 -340	mm/10	ASTM D 217
Penetration - unworked	290 -320	mm/10	ASTM D 217
NLGI Class	1		DIN 51818
Density, @ 25°C	1.3 - 1.4	g/cm ³	
Drop Point	None	°C	ASTM D 566
Service Temperatures (2)	-30 to +1427	°C	
SKF-Emcor Degree of corrosion	0/0		DIN 51802
Water Resistance, static evaluation	1-90		DIN 51807 pt.1
Approvals / Specifications / Special Properties	Meets purity levels for nuclear class hardware.		

1. Minor colour variation of the same product but of different batches could be possible. However, the lubrication values remain unchanged.

2. Solid lubricants maintain lubrication up to +1427°C.

ADDITIONAL INFORMATION

Direction Of Use

Use as supplied. Never dilute or mix with other oil or grease. Clean and degrease the surface prior to application. Remove all coatings, greases, dirt, grime, loose rust, and scales by means of a fine thin wire brush. Apply Nickel Lube liberally by means of a stiff wire brush on to the surface and evenly right down to the roots of the threads. Excessive compound provides a good sealing effect and need not be removed.

Designed for New Zealand Conditions | Manufactured from virgin base stocks. For more technical information please contact Vertex Lubricants NZ Technical Dept. +64 9 640 0004. Sheet updated 13 July 2023.