ROCOL®

Performance you can trust

Technical Data

FOODLUBE® Anti-Seize

Anti-Seize and Thread Compound

NSF Nonfood Compounds Program Listed: H1 ISO 21469 Certified

Description

ROCOL® FOODLUBE Anti Seize is a white non-toxic lubricating paste that is designed for use as an anti-seize, assembly lubricant and thread compound.

Optimized for use on stainless steels, such as those commonly found in food, pharmaceutical and other clean environments.

Designed to produce controlled assembly, and reduce galling and seizure on disassembly even in wet, dirty and corrosive conditions.

Applications

- Fasteners
- Static Applications
- Extruders

Approvals / Specifications

- Does not contain: mineral hydrocarbons, animal derived materials, nut oils or genetically modified ingredients.
- Manufactured from only FDA listed ingredients:
  - FDA Group 21 CFR 178.3570
- NSF H1 registered – 154575
- ISO 21469
- Halal certified
- Kosher certified
- Vegan Society Approved
- Rocol unique TPM number – 64

Features & Benefits

- Offers an excellent wide temperature resistance of -30°C to +450°C
- Optimised for preventing pick up and seizure of stainless steel fasteners, particularly at elevated temperatures.
- Economical in use – only requires a thin film for maximum performance.
- Extremely tenacious – resists water wash.
- FOODLUBE Anti Seize is ideal for use on machinery and assemblies operating in food, pharmaceutical and other clean environments.
- Suitable for use with aluminium and its alloys.
- Suitable for open gears operating a slow speeds

Directions For Use

Apply as a thin film by brushing or wiping onto a dry clean surface.

For best results, apply to both male and female components and fasteners.

The storage temperature should be controlled between +1°C and +40°C

Shelf life is 3 years from date of manufacture.

Further Information

For pack sizes, part codes and safety data sheets please visit www.rocol.com or get in touch with our customer service team who will be happy to help: customer.service@rocol.com

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Property	Test Method	Result
Appearance	N/A	White, Tenacious Grease
NLGI	IP 50 – ASTM D217	2/3
Base Type	N/A	Polyalphaolefin
Thickener	N/A	Calcium Sulphonate
Solids	N/A	White, Non-Toxic Solids
Solids Content	N/A	46%
Density	Pycnometer	1.37 g/cc
Temperature Range	N/A	-30°C to +450°C
Water Solubility	N/A	Insoluble
4-Ball Wear Scar (40kg 1hr)	IP 329 - ASTM D2266	0.84mm
4-Ball Weld Load	IP 329 - ASTM D2509	560kg
Copper Corrosion Test	IP 112 - ASTM D130	1b
Water Washout	IP 215 - ASTM D1264	< 2%
Approximate Coverage	0.1mm film thickness	10m²/kg

Values quoted above are typical and do not constitute a specification.

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Torque Settings for Fasteners

When a thread compound is applied to a fastener that will be torque tightened, the torque setting will require adjustment to achieve the correct tension in the fastener. Correct torque settings can be calculated using the methods below.

The Following parameters were derived from the tension-torsion relationship measured on M12 x 50mm setscrews with 1.75mm thread pitch, full nut and Form A washers. Fasteners were degreased and a thin layer of thread compound applied in line with instructions on Page 1. Data are for fasteners at 90% of the yield stress:

Fastener Material	Coefficient of Friction (μ)	K-Factor
304 Stainless Steel	0.115	0.17
8.8 Steel Plain Finish	0.098	0.14
8.8 Steel BZP	0.079	0.12

$$T = F \times \left[(0.159 \times P) + (0.577 \times d \times \mu) + (D_f \times \frac{\mu}{2})\right]$$

T = Torque Applied (Nm)
F = Tension Generated in Fastener (N)
P = Thread Pitch (m)
d = Pitch Diameter (m)
D_f = Nut Friction Diameter (m)
μ = Coefficient of Friction

$$T = K \times F \times D$$

T = Torque Applied (Nm)
F = Tension Generated in Fastener (N)
D = Nut Nominal Bolt Diameter (m)
K = K-Factor

Many parameters affect the tension-torsion relationship of fasteners, including: Bolt geometry, surface finish, lubricant application method, joint material,, torque application method, variation in fastener manufacture etc. Therefore, these parameters above are for guidance only, especially if a different material is used or if geometry is significantly different to M12. Any calculated values are a predictive tool and the final tension should be verified, especially in critical applications. These values do not constitute a specification.

For further guidance, please speak to your usual ROCOL contact or technical.lubricants@rocol.com.

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