



Performance you can trust

FOODLUBE® Anti-Seize



ISO 21469 Certified

Anti-Seize and Thread Compound for Food Processing Machinery

Product Overview

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.

FOODLUBE Anti Seize is also suitable as a lubricant for open gears under low and medium loads or slow speeds.

FOODLUBE Anti Seize is optimized for use on stainless steels, such as those commonly found in food, pharmaceutical and other clean environments.

FOODLUBE Anti Seize is designed to produce controlled assembly, and reduce galling and seizure on disassembly even in wet, dirty and corrosive conditions.

Features and Benefits

- Temperature resistance: -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 non-toxic, meets the requirements of NSF H1: incidental contact with food.
- 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.

Directions for Storage and 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.

Specifications

- FOODLUBE Anti Seize does not contain mineral hydrocarbons, animal derived material, nut oils or genetically modified ingredients.
- FOODLUBE Anti Seize is manufactured from only FDA listed ingredients: DA Group 21 CFR 178.3570
- NSF H1 registered 154575
- ISO 21469
- Halal certified
- Kosher Certified

Pack Sizes

Pack Size	Part Code
500g	15743

T +44 (0) 113 232 2600
F +44 (0) 113 232 2740
E customer-service@rocol.com
www.rocol.com

ROCOL House, Swillington, Leeds LS26 8BS

Registered Company No. 559693 VAT No. 742 0531 67
Registered Office: Admiral House, St Leonard's Road, Windsor, Berkshire SL4 3BL

ROCOL A division of *ITW* Ltd





Performance you can trust



ISO 21469 Certified

FOODLUBE Anti-Seize

Anti-Seize and Thread Compound for Food Processing Machinery

Property	Test Method	Result
Appearance	N/A	White, Tenacious Grease
NLGI	IP 50 – ASTM D217	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	10m ² /kg

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

Safety Data Sheets

Safety data sheets are available for download from our website www.rocol.com or may be obtained from your usual ROCOL contact.

T +44 (0) 113 232 2600
 F +44 (0) 113 232 2740
 E customer-service@rocol.com
www.rocol.com

ROCOL House, Swillington, Leeds LS26 8BS

Registered Company No. 559693 VAT No. 742 0531 67
 Registered Office: Admiral House, St Leonard's Road, Windsor, Berkshire SL4 3BL

ROCOL A division of **ITW** Ltd





Performance you can trust

FOODLUBE Anti-Seize



ISO 21469 Certified

Anti-Seize and Thread Compound for Food Processing Machinery

Torque Setting 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.

The information in this publication is based on our experience and reports from customers. There are many factors outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility.

Issue: 2 Date: 10-17

T +44 (0) 113 232 2600
 F +44 (0) 113 232 2740
 E customer-service@rocol.com
www.rocol.com

ROCOL House, Swillington, Leeds LS26 8BS

Registered Company No. 559693 VAT No. 742 0531 67
 Registered Office: Admiral House, St Leonard's Road, Windsor, Berkshire SL4 3BL

ROCOL A division of **ITW** Ltd

