

Performance you can trust



## FOODLUBE® MULTIPASTE Spray



ISO 21469 Certified

**Food grade, non-toxic, multipurpose anti-seize and lubricating spray**

### Product Overview

ROCOL® FOODLUBE MULTIPASTE Spray is a white non-toxic lubricating spray that applies an anti-seize paste which is ideal for the assembly and lubrication of threads, bushes, slides and small open gears operating in food, pharmaceutical and other clean environments.

It is also suitable for use as a food-grade drilling, tapping and cutting lubricant particularly when maintenance has to be carried out in the process area.

FOODLUBE MULTIPASTE Spray is developed with extremely low chlorine and sulphur levels making it ideal for use on stainless steel fasteners commonly found in food, pharmaceutical and other clean environments.

FOODLUBE MULTIPASTE Spray is designed to prevent pick up and seizure even in wet, dirty and corrosive conditions.

Also available in paste form – see FOODLUBE MULTIPASTE.

### Features and Benefits

- FOODLUBE MULTIPASTE Spray has metal detectable plastic components (aerosol caps and actuators) capable of detection by most metal detection equipment.
- Excellent temperature resistance -30°C to +450°C minimum.
- Extremely low chlorine and sulphur levels making it ideal 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.

### Directions for Storage and Use

- Shake aerosol well before use.
- Apply from a distance of 15-30 cm (6-12 inches).
- For best results as an anti seize lubricant apply to both the male and female parts.
- Use only in well ventilated areas.
- Apply as a thin film by brushing or wiping onto a clean dry surface.
- Also available as FOODLUBE MULTIPASTE for manual application.
- The storage temperature should be kept below +50°C, and the storage area should be out of direct sunlight.
- Shelf life is 4 years from date of manufacture.

### Typical Applications

- FOODLUBE MULTIPASTE Spray does not contain: mineral hydrocarbons, animal derived materials, nut oils or genetically modified ingredients.
- FOODLUBE MULTIPASTE Spray is manufactured from only FDA listed ingredients:
- FDA Group 21 CFR 178.3570
- FOODLUBE MULTIPASTE Spray is NSF registered:
- NSF H1 registered – 121613
- ISO 21469 certified

### Pack Sizes

Pack Size	Part Code
400ml	15751

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FM 12448



EMS 67596



OHS 78173



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Property	Test Method	Result
Appearance	Visual	Smooth white paste
Base Type	N/A	Synthetic lubricant
Solids	N/A	White, non-toxic solids
Propellant	N/A	Hydrocarbon
Solvent	N/A	Hydrocarbon
Temperature Range	N/A	-30°C to +450°C minimum
Flash Point (applied film)	ASTM D92	>200°C
Water Solubility	N/A	Insoluble
Coefficient of Friction	N/A	0.09
Approximate Coverage	0.1mm film thickness	10m <sup>2</sup> /kg
Metal Detection:		
Aerosol Cap	Equivalent sphere size	>3.0mm
Actuator	Equivalent sphere size	>3.0mm

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

FOODLUBE MULTIPASTE Spray is produced at a Halal Control Certified Site (Swillington UK) and is certified as Halal only where the Halal Control Logo is displayed on the product label (certificate registration number C-912-350-05-01/1).



Metal detectable caps to reduce potential contamination risk.

### Safety Data Sheets

Safety data sheets are available for download from our website [www.rocol.com](http://www.rocol.com) or may be obtained from your usual ROCOL contact.

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.

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### 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 ( $\mu$ )	K-Factor
304 Stainless Steel	0.200	0.25
8.8 Steel Plain Finish	0.153	0.20
8.8 Steel BZP	0.109	0.15
8.8 Steel Hot Dip Galvanised	0.121	0.16
Aluminium 6061	0.131	0.17

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

$T$  = Torque Applied (Nm)

$F$  = Tension Generated in Fastener (N)

$P$  = Thread Pitch (m)

$d$  = Pitch Diameter (m)

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

$T$  = 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](mailto:technical.lubricants@rocol.com).

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