

Performance you can trust



## FOODLUBE® MULTIPASTE



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

### Product Overview

ROCOL® FOODLUBE MULTIPASTE is a white non-toxic lubricating paste that is designed for use as an anti-seize paste as well as being 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 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 is designed to prevent pick up and seizure even in wet, dirty and corrosive conditions.

Also available in aerosol form – see FOODLUBE MULTIPASTE Spray.

### Features and Benefits

- Excellent temperature resistance -30°C to +450°C minimum.
- The 400g cartridge has metal detectable plastic components (end caps) capable of detection by most metal detection equipment.
- 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.
- FOODLUBE MULTIPASTE is also an ideal, adhesive, lubricating paste for bushes, slides and small open gears 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 clean dry surface.
- For best results apply to both the male and female parts.
- Also available as FOODLUBE MULTIPASTE Spray for application by aerosol.
- The storage temperature should be controlled between +1°C and +40°C.
- Shelf life is 5 years from date of manufacture.

### Typical Applications

- FOODLUBE MULTIPASTE does not contain: mineral hydrocarbons, animal derived materials, nut oils or genetically modified ingredients.
- FOODLUBE MULTIPASTE is manufactured from only FDA listed ingredients:
  - FDA Group 21 CFR 178.3570
- FOODLUBE MULTIPASTE is NSF registered:
  - NSF H1 registered – 121614

ISO 21469 certified

### Pack Sizes

Pack Size	Part Code
85g	15750
400g	15851
500g	15753
5kg	15756

T +44 (0) 113 232 2600  
F +44 (0) 113 232 2740  
E [customer-service@rocol.com](mailto:customer-service@rocol.com)  
[www.rocol.com](http://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

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# Technical Data

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## FOODLUBE® MULTIPASTE



ISO 21469 Certified

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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
Temperature Range	N/A	-30°C to +450°C minimum
Flash Point	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

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

FOODLUBE MULTIPASTE 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.ocol.com](http://www.ocol.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.

Issue: 7 Date 10-16

T +44 [0] 113 232 2600  
F +44 [0] 113 232 2740  
E [customer-service@ocol.com](mailto:customer-service@ocol.com)  
[www.ocol.com](http://www.ocol.com)

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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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[www.rocol.com](http://www.rocol.com)

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