

## FOODLUBE® Multi-Paste

Food grade multipurpose lubricating paste



Nonfood Compounds  
H1 Registered  
ISO 21469 Certified  
NSF 537 PFAS-Free Certified

### Applications

FOODLUBE Multipaste is a multi-purpose lubricating paste developed specifically for the food and pharmaceutical industries. It is specifically designed for wet, dirty and corrosive operating environments, and those subject to frequent wash out. Formulated to prevent wear and galling of moving parts. Particularly suited to harsh environments including frequent chemical cleaning. Multi-metal compatibility; including stainless steel and aluminium alloys.

### Applications

- Open Gears
- Lead Screws
- Threads & bushes
- Slides
- Fasteners / Anti Seize
- Cutting Compound

### Features and Benefits

- Excellent temperature resistance -30°C to +450°C minimum.
- Adhesive, lubricating paste for bushes, slides and small open gears operating in food, pharmaceutical and other clean environments.
- Economical in use - only requires a thin film for maximum performance.
- Extremely tenacious - resists water wash.
- The 400g cartridge has metal detectable plastic components (end caps) capable of detection by most metal detection equipment.
- Extremely low chlorine and sulphur levels, ideal for preventing pick up and seizure of stainless steel fasteners, particularly at elevated temperatures.

### Usage Guidance

For best results as an anti-seize lubricant: Degrease fasteners, then apply as a thin layer to threads, nut and bolt faces, and washers (if used).

Also available as FOODLUBE Multipaste Spray for application by aerosol.

### Storage Guidance

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

Shelf life is 5 years from date of manufacture.

### Approvals and Certifications

- NSF H1 registered - 121614
- ISO 21469
- NSF 537 - PFAS Free
- Halal certified
- Kosher certified
- Vegan Society Certified
- ROCOL unique TPM number - 2
- Manufactured from only FDA listed ingredients: FDA Group 21 CFR 178.3570
- Does not contain: mineral hydrocarbons, animal derived materials, nut oils or genetically modified ingredients

### Pack Sizes

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

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

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ISO 9001  
Quality  
Management  
Systems  
CERTIFIED

AS/EN  
9100  
Aviation Space and  
Defence  
CERTIFIED

ISO 14001  
Environmental  
Management  
CERTIFIED

ISO/IEC  
27001  
Information Security  
Management  
CERTIFIED

ISO 45001  
Occupational  
Health and Safety  
Management  
CERTIFIED



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Parameter	Test Method	Value
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
Approximate coverage	0.1mm film thickness	10 m <sup>2</sup> /kg

**Safety Datasheets**

These are available at <https://www.rocol.com/datasheets>. For further assistance, please contact us via the ROCOL website or using the details below.

**Note**

The information in this Technical Datasheet is informed by our experience and feedback from industry. There are many variables outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility. Values quoted are typical and do not constitute a specification.

If you'd like to discuss the suitability of any ROCOL solution for your system, please get in touch.

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### Torque Setting for Threaded 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 to threads, nut face and washers. Data are for fasteners at 90% rated yield stress:

Fastener Material	Coefficient of Friction ( $\mu$ )	K-Factor
A2-70 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)  
 $D_f$  = Nut Friction Diameter (m)  
 $\mu$  = 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](mailto:technical.lubricants@rocol.com).

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