

Performance you can trust



ISO 21469 Certified

FOODLUBE® Endure 00

Food grade, high performance, EP lubricant fortified with PTFE

Product Overview

ROCOL® FOODLUBE Endure 00 is a perfluoropolyether based lubricant which lengthens relubrication periods dramatically due to its ability to resist degradation in hostile conditions.

FOODLUBE Endure 00 is primarily designed for high temperature oven chains where a non-toxic, NSF H1 lubricant is required. It is also ideal for use in gearboxes, anti-friction and plain bearings, small gears, slides, pins, valves, plungers, screws etc.

FOODLUBE Endure 00 has extreme resistance against aggressive chemicals and strong oxidising agents make it a natural choice for use in the food, pharmaceutical and other clean industries.

Features and Benefits

- FOODLUBE Endure 00 has an excellent wide temperature range from -25°C to +280°C.
- FOODLUBE Endure 00 has outstanding EP performance with a weld load of 500kg.
- FOODLUBE Endure 00 is a chemically inert, non-toxic lubricant with an extremely high oxidation and thermal resistance.
- The product has an exceptionally long service life providing excellent cost effectiveness from extended lubrication intervals, reduced downtime and reduced labour costs.
- FOODLUBE Endure 00 will have no detrimental effect on rubbers, plastics or metals.

Directions for Storage and Use

- FOODLUBE Endure 00 can be applied manually or by other methods suitable for dispensing semi-fluid, NLGI No. 00 lubricants.
- It is compatible with other perfluoropolyether greases. However, for best results it is recommended that the bearings should be purged of the previous lubricant prior to application.
- If the previous lubricant used was not perfluoropolyether based, it is important to ensure that the components are fully cleaned with a suitable solvent, for example ROCOL Industrial Cleaner Rapid Drying Spray, before lubricating with FOODLUBE Endure 00.
- The storage temperature should be controlled between +1°C and +40°C.
- Shelf life is 5 years from date of manufacture.

Specifications

- FOODLUBE Endure 00 does not contain: mineral hydrocarbons, animal derived materials, nut oils or genetically modified ingredients.
- FOODLUBE Endure 00 is manufactured from only FDA listed ingredients:
 - FDA Group 21 CFR 178.3570
- FOODLUBE Endure 00 is NSF registered:
 - NSF H1 registered – 123720
- ISO 21469 certified

Pack Sizes

Pack Size	Part Code
525g	15503

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Registered Office: Admiral House, St Leonard's Road, Windsor, Berkshire SL4 3BL

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BS EN ISO 9001
Certificate No. FM 12448



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Certificate No. OHS 78173



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Property	Test Method	Result
Appearance	Visual	Soft white lubricant
Base Type	N/A	Perfluoropolyether
Base Fluid Viscosity at 20°C	IP 71 – ASTM D445	1525cSt
Base Fluid Viscosity at 40°C	IP 71 – ASTM D445	420cSt
Base Fluid Viscosity at 100°C	IP 71 – ASTM D445	40cSt
Thickener	N/A	PTFE
Temperature Range	N/A	-25°C to +280°C
4-Ball Weld Load	IP 239 - ASTM D2596	500kg
4-Ball Wear Load Index	IP 239 - ASTM D2596	106kg
Specific Gravity	N/A	1.5
Solvent Resistance	N/A	Most solvents
Chemical Resistance	N/A	Most acids
Soluble in:	N/A	Fluorinated solvents

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.

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: 01-11

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SAFETY DATA SHEET
FOODLUBE ENDURE 00

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Compilation date: 19/10/2012

Revision No: 3

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: FOODLUBE ENDURE 00

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: PC24: Lubricants, greases, release products.

1.3. Details of the supplier of the safety data sheet

Company name: ROCOL

ROCOL House

Swillington

Leeds

West Yorkshire

LS26 8BS

ENGLAND

Tel: +44 (0) 113 232 2700

Fax: +44 (0) 113 232 2740

Email: customer-service@rocol.com

1.4. Emergency telephone number

Emergency tel: +44 (0) 113 232 2600

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: This product has no classification under CHIP.

2.2. Label elements

Label elements under CHIP:

Hazard symbols: No significant hazard.

2.3. Other hazards

Other hazards: Combustion may also generate: decomposition products that may lead to polymer fume fever (24 - 48 hr influenza-like symptoms).

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Contains: NON-HAZARDOUS SUBSTANCE1 - 100%

[cont...]

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FOODLUBE ENDURE 00

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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: No symptoms.

4.3. Indication of any immediate medical attention and special treatment needed

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Use water spray to cool containers. Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes. In combustion emits toxic fumes of hydrogen fluoride.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance.

[cont...]

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: Not applicable.

8.2. Exposure controls

Respiratory protection: Respiratory protection not normally required.

Hand protection: Protective gloves.

Eye protection: Safety glasses with side-shields.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Paste

Colour: White

Odour: Odourless

Evaporation rate: Negligible

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Insoluble

Viscosity: Highly viscous

Flash point°C: > 300

Autoflammability°C: > 300

Relative density: 1.9

9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid: Heat.

[cont...]

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FOODLUBE ENDURE 00

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10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong reducing agents.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of hydrogen fluoride. Combustion may also generate: decomposition products that may lead to polymer fume fever (24 - 48 hr influenza-like symptoms).

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values: Not applicable.

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: No symptoms.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: Not applicable.

12.2. Persistence and degradability

Persistence and degradability: Only slightly biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Non-volatile. Absorbed only slowly into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

[cont...]

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FOODLUBE ENDURE 00

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Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Contains only FDA listed ingredients. NSF H1 registered.

Compiled in accordance with REACH.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.