

# Technical Data

## SAPPHIRE® ENDURE 00 (Formally FOODLUBE Endure 00)

### High Performance Food Grade PFPE Semi Fluid Grease



Nonfood Compounds  
Program Listed: H1  
ISO 21469 Certified

#### Description

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

SAPPHIRE 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.

Suitable for a wide range of applications.

#### Applications

- Oven Chains
- Bearings
- Automatic lubrication systems
- Chemically aggressive environments
- Gearboxes
- Open Gears
- Valves
- Screws
- Glue pots
- Plungers
- Lubrication via a sump / reservoir

#### Approvals / Specifications

- Does not contain: mineral hydrocarbons, animal derived materials, nut oils or genetically modified ingredients.
- Manufactured from only FDA listed ingredients:
  - FDA Group 21 CFR 178.3570
- NSF H1 registered – 123720
- ISO 21469
- Halal certified
- Kosher certified
- Vegan Society Approved
- Rocol unique TPM number – 24

#### Features & Benefits

- Offers an excellent wide temperature resistance of –25°C to +280°C.
- Outstanding EP performance with a weld load of 500kg.
- 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.
- Will have no detrimental effect on rubbers, plastics or metals.

#### Directions For Use

SAPPHIRE 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 any previous lubricant is purged out 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.

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

Shelf life is 5 years from date of manufacture.

#### Further Information

For pack sizes, part codes and safety data sheets please visit [www.rocol.com](http://www.rocol.com) or get in touch with our customer service team who will be happy to help: [customer.service@rocol.com](mailto:customer.service@rocol.com)

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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.

Issue 7 Date: 02/24

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