

Technical Data

SAPPHIRE® Ultra®

High Performance, Extreme Pressure (EP) PFPE Lubricant

Description

ROCOL® SAPPHIRE Ultra is a NLGI No.2 perfluoropolyether based lubricant which lengthens relubrication periods dramatically due to its ability to resist degradation in hostile conditions.

SAPPHIRE Ultra is designed for use on anti-friction and plain bearings, small gears, slides, pins, valves, plungers and screws.

SAPPHIRE Ultra has extreme resistance against aggressive chemicals and strong oxidising agents.

Applications

- Anti-friction / precision bearings
- Plain bearings
- Gearing
- Slides
- Valves
- Oven Bearings
- Hanger Bearings
- Corrugators
- Sealed for life applications

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

Features & Benefits

- Offers an excellent wide temperature range of -25°C to + 280°C
- Outstanding EP performance with a weld load of 620kg
- Non-toxic lubricant with extremely high oxidation and thermal resistance.
- Resistant to a wide range of chemicals
- Highly resistant to water and steam
- Exceptionally long service life providing excellent cost effectiveness from extended lubrication intervals, reduced downtime and reduced labour costs
- Reduces lubricant usage, only minimal amounts are required
- No detrimental effect on rubbers, plastics or metals

Directions for Use

SAPPHIRE Ultra can be applied manually or by other methods suitable for dispensing an NLGI No.2 lubricant.

Compatible with other perfluoropolyether greases. However, for best results 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.

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

Further Information

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

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Property	Test Method	Result
Appearance	Visual	Smooth off white lubricant
NLGI Number	IP50 - ASTM D217	2
Base Type	N/A	Perfluoropolyether
Base Fluid Viscosity at 20°C	IP71 – ASTM D445	1525cSt
Base Fluid Viscosity at 40°C	IP71 – ASTM D445	420cSt
Base Fluid Viscosity at 100°C	IP71 – ASTM D445	40cSt
Thickener	N/A	PTFE
Temperature Range	N/A	-25°C to +280°C
4-Ball Weld Load	IP239 - ASTM D2596	620kg
4-Ball Wear Load Index	IP239 - ASTM D2596	106kg
Specific Gravity	N/A	1.9
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.

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