Technical Data

Performance you can trust

OT20

Perfluoropolyether based grease designed primarily for oxygen systems

Product Overview

ROCOL® OT20 is an oxygen compatible lubricant primarily designed for use on breathing apparatus in Ministry of Defense aircraft, sub-sea equipment and operating theatres in hospitals. It lengthens relubrication periods dramatically due to its ability to resist degradation in hostile conditions.

ROCOL OT20 is used in gearboxes, anti-friction and plain bearings, or any sliding surface such as pins, valves, plungers, screws etc. Its resistance against aggressive chemicals and strong oxidising agents makes it a natural choice for use in the chemical, dry cleaning, food and related industries.

ROCOL OT20 is an extreme high load lubricant, for a wide range of aggressive environments, which will not have a detrimental effect on rubbers, plastics or metals.

Features and Benefits

- ROCOL OT20 has an excellent low temperature range from -70°C to +100°C.
- ROCOL OT20 is an oxygen resistant, 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.
- ROCOL OT20 has outstanding extreme pressure (EP) performance with a weld load of 620kg.
- This product is designed primarily for extreme applications in aggressive environments, however, it is also used where a long life or a lubricated for life application exists.

Directions for Storage and Use

- ROCOL OT20 can be applied manually or by other methods suitable for dispensing NLGI No. 2 greases.
- ROCOL OT20 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 bearings are fully cleaned with a suitable solvent, for example ROCOL INDUSTRIAL CLEANER Rapid Dry Spray, before charging with ROCOL OT20.
- The storage temperature should be controlled between +1 and +40°C.
- Shelf life is 5 years from date of manufacture.

Typical Applications

Approved to:

- DTD 900/6080 (AFS 1732A)
- NATO 9150-99-761-5671

- ROCOL OT20 is used on breathing apparatus in Ministry of Defense aircraft, sub-sea equipment and operating theatres in hospitals. It is also ideal for valves, slides, gearboxes and both plain and anti-friction bearings.

Pack Sizes

Pack Size	Part Code
100g	39021
400g	39023

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ROCOL A division of ITW Ltd

BS EN ISO 9001 Certificate No. FM 12448
BS EN ISO 14001 Certificate No. EMS 67596
OHSAS 18001 Certificate No. OHS 78173

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Property	Test Method	Result
Appearance	Visual	Soft white grease
NLGI Number	IP 50 (ASTM D217)	2
Base Type	N/A	Perfluoropolyether
Base Fluid Viscosity at 20°C	IP 71	31 – 39cSt
Base Fluid Viscosity at 40°C	IP 71	15cSt
Thickener	N/A	PTFE
Temperature Range	N/A	-70°C to +100°C
4-Ball weld Load	IP 239 (ASTM D2596)	620kg
Specific Gravity	N/A	1.87
B.A.M. Oxygen Impact Test – Limit Pressure	N/A	100 bar at 60°C
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.

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