

Performance you can trust



## BIOGEN WIRESHIELD®

Ecolabel certified, Biodegradable & VGP Compliant Lubricant



### Product Overview

ROCOL® BIOGEN WIRESHIELD is a high performance, Ecolabel certified, biodegradable, VGP compliant wire rope lubricant featuring advanced pseudoplastic rheology.

BIOGEN WIRESHIELD demonstrates industry leading corrosion protection, protecting ropes from their primary failure mode.

BIOGEN WIRESHIELD is a dark grey gel, however, it is designed to immediately transform into a fluid consistency under shear to aid penetration into the core of the rope. BIOGEN WIRESHIELD then returns back to a grease consistency. This transformation ensures that the lubricant resists dripping and fling.

BIOGEN WIRESHIELD has been developed to outperform mineral oil lubricants with no compromise on the environment, operator safety or cable protection.

### Features and Benefits

- VGP compliant & Ecolabel certified ensuring biodegradability, minimal eco-toxicity and low bioaccumulation potential.
- Industry leading corrosion protection.
- No sheen formula.
- Pseudoplastic rheology increases penetration of the lubricant. This is enhanced by the use of a high pressure applicator.
- BIOGEN WIRESHIELD has a wide temperature range -50°C to +180°C, ensuring resistance to high temperature applications such as heave compensation and also viability for extreme cold weather use.
- The thin, non-tacky film of BIOGEN WIRESHIELD prevents build-up of dust and dirt and is highly resistant to water wash-off.
- BIOGEN WIRESHIELD has excellent lubricating properties which reduces wear on wires and strands, ultimately maximising service life.
- BIOGEN WIRESHIELD is highly stable in the presence of salt water, ensuring protection when exposed to sea water for extended periods of time.

### Specifications

- EU Ecolabel certified - license number UK/27/013.
- VGP compliant.
- Approved for use on Rolls Royce Syncrolift.

### Directions for Storage and Use

- BIOGEN WIRESHIELD should be stored in its unopened original container.
- For best practice, storage temperature of BIOGEN WIRESHIELD should ideally be controlled to between +1°C and +40°C. However, there will be no detrimental effect when stored within its operating service temperature.
- 3 years from date of manufacture shelf life.
- The minimum application temperature for BIOGEN WIRESHIELD is 0°C. For best results apply BIOGEN WIRESHIELD to clean, dry ropes.
- BIOGEN WIRESHIELD is fully compatible with any previously used service or build lubricants.
- Prior to application of BIOGEN WIRESHIELD, build lubricant or previously used service lubricants should be cleaned off to enhance penetration and adhesion.

### Typical Applications

- BIOGEN WIRESHIELD is optimised for high performance use under arduous conditions whilst minimising environmental impact.
- Ideal for use when VGP regulations must be met. See [www.rocol.com/biogen](http://www.rocol.com/biogen) for further information.
- BIOGEN WIRESHIELD is ideal for lubrication of all types of wire ropes. It is also ideal for equipment such as winches, hoists, drag lines, large chains, open gears, tethers, and armoured ROV umbilicals.
- BIOGEN WIRESHIELD can be applied using a brush, swab or automatic lubricator.
- Approved for use with the Masto High Pressure Wire Rope Lubricator, Viper and Corelube wire rope lubricant applicators.
- Approximate rope coverage, based on a 25mm diameter rope, is 50 meters per kg.

### Pack Sizes

Pack Size	Part Code
18kg	20064
160kg	20069

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Property	Test Method	Result
Appearance	Visual	Soft metallic black grease
Base Fluid Type	N/A	Vegetable/Synthetic
Base Fluid Viscosity at 40°C	IP71	165cSt
Base Fluid Viscosity at 100°C	IP71	22.3cSt
Thickener	N/A	Proprietary
Solids	N/A	Graphite
Drop Point	IP 396	Non-melting
Operating Temperature Range	N/A	-50°C to +180°C
4-Ball Weld Load	IP239	355kg
Ecotoxicity	OECD 215	NOEC >100 mg/l
Ecotoxicity	OECD 211	Not toxic to aquatic environments
Biodegradability	OECD 306	Inherently aerobically biodegradable
Salt Spray Corrosion Protection	ASTM B-117	>4000 hours
Copper Corrosion Test (24hrs at 100°C)	IP 112 – ASTM D130	1A
Oil Separation (24hrs at +100°C)	IP 121	1%

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](http://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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