



Performance you can trust

BIOGEN WIRESHIELD®

VGP and European Eco-Label Compliant (pending) Lubricant for Wire Ropes and Armoured Umbilicals

Product Overview

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

BIOGEN WIRESHIELD demonstrates industry leading corrosion protection in laboratory testing, therefore protecting ropes from their primary failure mode

BIOGEN WIRESHIELD initially appears to be 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. When the shearing stops the BIOGEN WIRESHIELD stiffens back to a grease consistency. This transformation ensures that the lubricant resists dripping or throw off.

Features and Benefits

- VGP and Eco-Label compliant (pending), ensuring biodegradability, minimal eco-toxicity and low bioaccumulation potential.
- Industry leading corrosion protection.
- No sheen formula.
- Pseudoplastic rheology aids application of the lubricant on to the wire rope by increasing penetration. It also ensures simple application with high pressure lubricators.
- BIOGEN WIRESHIELD has a wide temperature range -30°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, safeguarding protection when exposed to sea water for long periods of time.

Directions for Storage and Use

- BIOGEN WIRESHIELD should be stored in its unopened original container.
- The storage temperature of BIOGEN WIRESHIELD should be controlled to between +1°C and +40°C.
- If BIOGEN WIRESHIELD is stored in accordance with the above guidelines, shelf life is 3 years from date of manufacture.
- The minimum application temperature for BIOGEN WIRESHIELD is 0°C. For best results apply BIOGEN WIRESHIELD to clean, dry ropes.
- Testing has confirmed the compatibility when mixing BIOGEN WIRESHIELD with previously used service or build lubricants.

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. Please see 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, steel armoured and 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.

Pack Sizes

Pack Size	Part Code
18kg	20064
160kg	20069

T +44 (0) 113 232 2600
F +44 (0) 113 232 2740
E customer-service@rocol.com
www.rocol.com

ROCOL House, Swillington, Leeds LS26 8BS

Registered Company No. 559693 VAT No. 742 0531 67
Registered Office: Admiral House, St Leonard's Road, Windsor, Berkshire SL4 3BL

ROCOL A division of **ITW** Ltd



FM 12448



EMS 67596



OHS 78173





Performance you can trust

BIOGEN WIRESHIELD®

VGP and European Eco-Label Compliant (pending) Lubricant for Wire Ropes and Armoured Umbilicals

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	-30°C to +180°C
4-Ball Weld Load	IP239	320kg
Ecotoxicity	OECD 215	NOEC >100 mg/l
Ecotoxicity	OECD 211	Pending
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 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: 4 Date: 07-14

T +44 (0) 113 232 2600
F +44 (0) 113 232 2740
E customer-service@rocol.com
www.rocol.com

ROCOL House, Swillington, Leeds LS26 8BS

Registered Company No. 559693 VAT No. 742 0531 67
Registered Office: Admiral House, St Leonard's Road, Windsor, Berkshire SL4 3BL

ROCOL A division of **ITW** Ltd

