

# Technical Data

## BIOGEN® WIRESHIELD®

### High Performance Biodegradable Wire Rope Lubricant

#### Description

ROCOL® BIOGEN Wireshield is a soft, dark, high performance wire rope lubricant.

Features Pseudo Plastic Rheology; It is a dark grey gel, however, it is designed to transform into a fluid consistency under shear to aid penetration into the core of the rope. It will then return back to a grease consistency when shear is removed ensuring that the lubricant resists dripping, fling and water wash off.

Demonstrates industry leading corrosion protection, protecting ropes from their primary failure mode.

outperform mineral oil lubricants with no compromise on the environment, operator safety or cable protection.

#### Applications

- Submerged Ropes
- ROV Ropes
- Ship Lifts
- Ship to Shore Cranes
- Onshore Cranes
- Static Ropes
- Winches
- Hoists
- Drag Lines
- Large Chains
- Gears

#### Approvals / Specifications

- Approved for use on TTS Syncrolift
- Approved for use with Masto, Viper and Corelube High Pressure Wire Rope Lubricators

#### Features & Benefits

- Offers an excellent wide temperature range of -50°C to +180°C
- Biodegradability, minimal eco-toxicity and low bioaccumulation potential.
- Industry leading corrosion protection
- Resistant to salt water
- Low fling off
- Highly resistant to water wash off
- Thin, non-tacky film preventing the build up of dust and dirt
- Highly penetrative ensuring penetration and protection of the core of the rope.
- Prevents wear on rope strands
- No sheen formula

#### Directions For Use

Biogen Wireshield can be applied manually although the use of an automatic lubricator is recommended.

For best results apply to clean, dry ropes

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

Shelf life is 3 years from date of manufacture.

Should be stored in its original unopened container.

Approximate rope coverage, based on a 25mm diameter rope, is 50 meters per kg.

#### 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 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
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.

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