

# Technical Data

## BIOGEN® Fluid

### Environmentally Considerate Biodegradable Grease in a Solvent Carrier

#### Description

ROCOL® BIOGEN Fluid is a high-performance biodegradable grease in a biodegradable solvent carrier, featuring advanced pseudoplastic rheology. It is based on ROCOL BIOGEN technology, which is a unique and proprietary system. It provides performance levels in excess of traditional mineral oil technologies with a highly considerate environmental profile.

The de-watering fluid is designed for complete lubrication and corrosion protection for environmentally sensitive locations, in wet and hostile applications.

BIOGEN Fluid demonstrates industry leading corrosion protection, guarding wire ropes and other equipment from the onset of degradation.

BIOGEN Fluid has excellent self-penetration abilities and will naturally search its way between strands and cavities.

Solvent evaporates leaving a highly tenacious grease film that resists dripping or fling and is highly resistant to wash off.

#### Applications

- Submerged Ropes
- ROV Umbilical Cables
- Static Ropes
- Ship Lifts
- Winches
- Hoists
- Chains
- Gears
- Drag lines
- Pulleys
- Springs

#### 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
- No sheen formula
- Rust Dissolving
- Pseudoplastic rheology increases penetration of the lubricant. This is enhanced by the use of a fluid applicator.
- Reduces wear on moving parts, maximises service life

#### Directions For Use

BIOGEN Fluid should be stored in its unopened original container.

For best practice, storage temperature of BIOGEN Fluid should ideally be controlled to between +1°C and +40°C.

It is recommended that BIOGEN Fluid is mixed, stirred or agitated for 2-5 minutes shortly before application.

3 years from date of manufacture shelf life.

The minimum application temperature for BIOGEN Fluid is 0°C.

BIOGEN Fluid is fully compatible with any previously used service or build lubricants.

For ropes, prior to application of BIOGEN Fluid, build lubricant or previously used service lubricants should be cleaned off as far as possible to enhance penetration and adhesion.

#### 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	Dark grey fluid
Base Fluid Type	N/A	Vegetable/Synthetic
Base Fluid Viscosity at 40°C	IP71	165 cSt
Base Fluid Viscosity at 100°C	IP71	22.3 cSt
Thickener	N/A	Proprietary
Solids	N/A	Graphite
Drop Point	IP 396	Non-melting
Flash Point	PMCC	40°C
Operating Temperature Range	N/A	-50°C to +180°C
4-Ball Weld Load	IP239	355kg
Salt Spray Corrosion Protection	ASTM B-117	>1000 hours
Copper Corrosion Test (24hrs at 100°C)	IP 112 – ASTM D130	1A
Oil Separation (24hrs at +100°C)	IP 121	1%
<b>Applied Film;</b>		
Ecotoxicity	OECD 215	NOEC 100 mg/l
Ecotoxicity	OECD 211	Not toxic to aquatic environments
Biodegradability	OECD 306	Inherently aerobically biodegradable

Values quoted above are typical and do not constitute a specification.

Issue 3 Date: 11/20

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