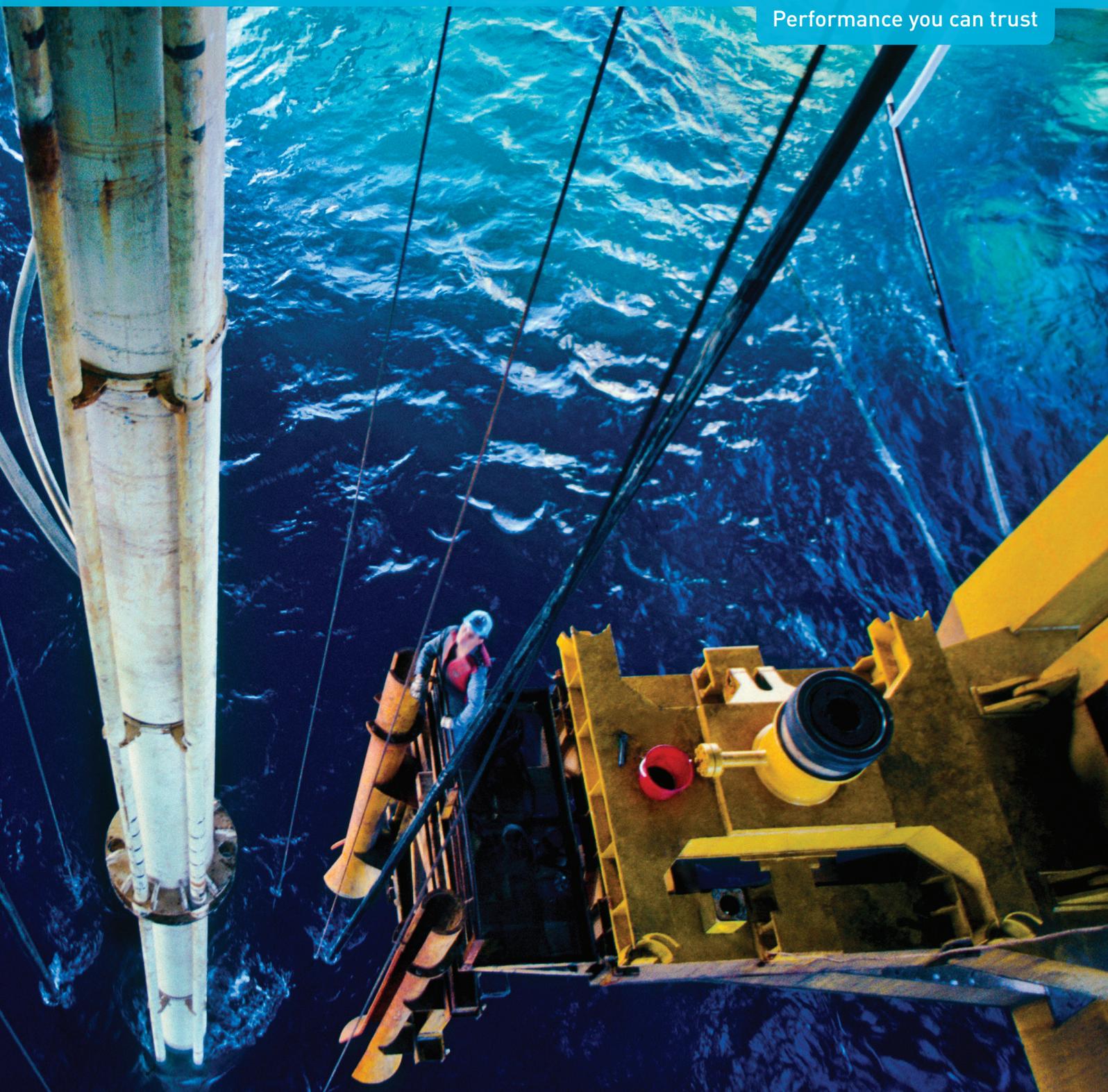


ROCOL[®]

MARINE & OFFSHORE LUBRICANTS

Performance you can trust

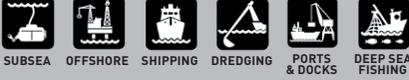


Marine & Offshore Lubricants



- Market-leading corrosion protection
- Maximum penetration and protection to the rope core with our unique technology
- EU Ecolabel approval and VGP compliance: biodegradable, minimally toxic, non-bioaccumulative and produces no sheen effect

	BIOGEN WIRESHIELD® 	BIOGEN® MARINE ROPE DRESSING 	WIRESHIELD®	WIRE ROPE DRESS-
TARGET APPLICATIONS	  SUBSEA OFFSHORE	    SHIPPING DREDGING PORTS & DOCKS DEEP SEA FISHING	    SHIPPING MINING PORTS & DOCKS CONSTRUCTION & GENERAL LIFTING	    SHIPPING MINING PORTS & DOCKS CONSTRUCTION & GENERAL LIFTING
CORROSION RESISTANCE (ASTM B-117 SALT SPRAY TEST)	★★★★★ >4000 hours	★★★★★ >1000 hours	★★★★★ >4000 hours	★★★★★ <1000 hours
OPERATING TEMPERATURE RANGE	★★★★★ -50 to +180°C Does not melt with active heave compensation; suitable for arctic conditions	★★★★★ -30 to +100°C	★★★★★ -30 to +100°C	★★★★★ -30 to +100°C
PENETRATION	★★★★★ Pseudoplastic rheology aids penetration of the lubricant into strands of wire rope, ensuring deeper protection	★★★★★ Exhibits good penetration which is enhanced by the use of a high pressure lubricator	★★★★★ Pseudoplastic rheology aids penetration of the lubricant into strands of wire rope, ensuring deeper protection	★★★★★ Semi-fluid grease aids penetration into the rope
ENVIRONMENTAL PROFILE	★★★★★ VGP / European Ecolabel compliant: minimally toxic, non-bioaccumulative and biodegradable. No sheen formula	★★★★★ VGP / European Ecolabel compliant: minimally toxic, non-bioaccumulative and biodegradable. No sheen formula	★★ Traditional mineral oil technology	★★ Traditional mineral oil technology
WATER WASH-OFF (ASTM D4049)	★★★★★ Exceptional water wash-off resistance. Ideal for subsea and submerged applications	★★★★★ Highly resistant to water wash-off	★★★★★ Highly resistant to water wash-off	★★★★ Good resistance to water wash-off
APPEARANCE	Soft metallic black grease	Soft off-white grease	Soft translucent amber grease	Soft grey/black grease
PART CODE	  20064 (18 kg) 20069 (160 kg)	 20074 (18 kg)	  20054 (18 kg) 20058 (160 kg)	  20026 (4 kg) 20024 (18 kg)

	BIOGEN® FLUID	WIRE ROPE FLUID
TARGET APPLICATIONS	 SUBSEA OFFSHORE SHIPPING DREDGING PORTS & DOCKS DEEP SEA FISHING	 SHIPPING MINING PORTS & DOCKS CONSTRUCTION & GENERAL LIFTING
CORROSION RESISTANCE (ASTM B-117 SALT SPRAY TEST)	★★★★★ >1000 hours	★★★★★ <1000 hours
OPERATING TEMPERATURE RANGE	★★★★★ -50 to +180°C Does not melt with active heave compensation; suitable for arctic conditions	★★★★★ -30 to +100°C
PENETRATION	★★★★★ Pseudoplastic rheology aids penetration of the lubricant into strands of wire rope, ensuring deeper protection	★★★★★ Semi-fluid grease aids penetration into the rope
ENVIRONMENTAL PROFILE	★★★★★ Biodegradable and environmentally considerate	★★ Traditional mineral oil technology
APPEARANCE	Dark grey fluid	Grey fluid
PART CODE	 20085 (20 l)	 20046 (5 l) 20045 (20 l)

OPEN GEARS

BIOGEN TUFLUBE BIODEGRADABLE GREASE
18404 (18 kg)

TUFLUBE ALLWEATHER
18271 (400 g)
18276 (5 kg)
18244 (18 kg)

Heavy Duty Jacking and Open Gear Greases Saves time and money, and extends the life of critical assets. Can be applied by hand or automatic pumping equipment.

- **EXTREME PRESSURE:** Unique additive package protects against metal wear
- **EXTREME CORROSION PROTECTION:** Physical and chemical protection against pitting and corrosion
- **EXTREME ADHESION:** Blend of high tack boosters ensures staying power even when submerged
- **EXTREME TEMPERATURES:** For use in the hottest and coldest global climates



WIRE ROPE SPRAY

WIRE ROPE Spray offers all the benefits of Wire Rope Dressing but in a convenient, high performance aerosol for controlled application. The fluid form provides both enhanced de-watering and penetration properties making the product particularly suitable for use on wet ropes or those going in to storage.

- Highly resistant to water wash-off and offers outstanding corrosion protection, even in salt water environments
- Provides a thin, non-tacky film which prevents the build-up of dust and dirt on the wire rope
- Excellent lubrication properties, reducing wear on the wires and strands thereby maximising the service life of the rope



ANTI-SEIZE SPRAY

ANTI-SEIZE Spray is designed for use on static fasteners and mechanisms prone to seizure where conventional copper based anti-seize products may fail to perform. It is particularly effective in extreme wet conditions even when submerged in sea water environments.

- Lubricates, protects and eases dismantling
- Static operating temperature resistance of -50°C to +1100°C



CORROSION PROTECTION

Z30 SPRAY
37020 (300 ml Aerosol)
37022 (5 l)
37028 (20 l)

Heavy Duty Waxy Film for Long Term Outdoor Corrosion Protection.

- Up to 2 years' corrosion protection
- Good dewatering properties and penetration
- Thin, flexible film does not crack or chip
- Does not contain silicones or chlorinated solvents
- Protects components in storage and transit
- Temperature range: -20°C to +110°C



Performance you can trust

for marine and offshore applications

Technically advanced lubricants developed by our chemists and engineers to meet customer needs. Our wire rope products offer:

- ▶ Market-leading corrosion protection
- ▶ Maximum penetration and protection to the rope core with our unique technology
- ▶ EU Ecolabel approval and VGP compliance: biodegradable, minimally toxic, non-bioaccumulative and produces no sheen effect



Wire rope lubrication best practice

- **Cleaning for enhanced performance**
 - Before use, remove old lubricant and clean wire rope to aid lubricant adhesion and penetration
 - Pressure applicators can aid cleaning process
 - Avoid the use of solvents which can be harmful to operators and aquatic environments
 - To prevent water ingress and internal corrosion, avoid jet washing and steam cleaning
- **Compatibility**
 - Compatible with most other branded wire rope lubricants
 - For best results, clean thoroughly before application
- **Application**
 - Use of pressure applicator recommended
 - If applied by hand, work into the surface to aid penetration
 - Avoid over application to prevent excessive usage and fling-off
- **Re-lubrication**
 - Re-lubrication intervals vary depending on operation or location of the asset
 - Typically 6 months based on average conditions but should be assessed depending on the environment

ROCOL Marine & Offshore Lubricants:

- ▶ Protect investment in costly wire ropes against internal corrosion
- ▶ Protect against downtime
- ▶ Resist wash-off and fling-off
- ▶ Prevent premature rope replacement
- ▶ Reduce friction and wear
- ▶ Avoid cost and risks associated with injuries and cleaning



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