



HEAVY INDUSTRY



Performance you can trust



From product concept, design and development through to technical expertise and customer services, Rocol® supports your lubrication needs.

- Our wire rope products offer:
- ▶ Market-leading corrosion protection
 - ▶ Maximum penetration and protection to the rope core with our unique technology
- Our open gear products offer:
- ▶ Excellent resistance to corrosion and wear
 - ▶ Optimum performance even under wet and damp conditions

Contents

Biodegradable Wire Rope Lubricants	4 / 5
Wire Rope Lubricants	6 / 7
Open Gear Lubricants	8 / 9
Wire Rope Selector	10
Open Gear Selector	11
Anti-Seize & Assembly	12
Gearbox & Hydraulic Oils	13
Bearing Greases	14
Bearing Greases & Corrosion Protection	15



- Heavy Industrial Lubricants For:
- ▶ Marine
 - ▶ Offshore
 - ▶ Oil and Gas
 - ▶ Mining
 - ▶ Quarrying and Cement
 - ▶ Construction
 - ▶ Ports and Docks
 - ▶ Lifting and Cranes

Performance you can trust
for Heavy Industrial applications



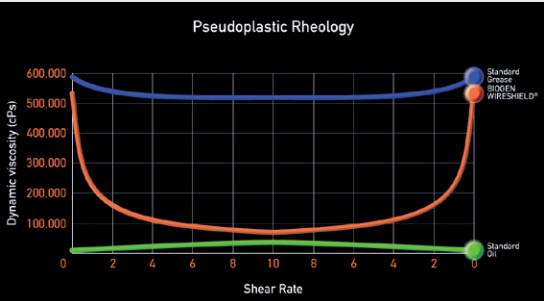
Working closely with customers means we understand the day to day challenges in keeping industry running. Our experience and expertise in product development means our advanced technology keeps your equipment maintained and protected to the highest standard to ensure your operations run effectively and efficiently.

Our dedicated labs test to ISO, ASTM, BSI and IP standards so you can be assured that you're using the highest quality products.

Biodegradability [▶ Biodegradable Products](#)

This is a measure of how quickly a lubricant would break down into its harmless constituents if released into the sea, rivers, dams or soil. In the instance of accidental discharge, a biodegradable lubricant will not remain in the environment for long periods of time which minimises the damage it can cause.

Pseudoplastic Rheology



Application of shear forces or agitation causes a reduction in the dynamic viscosity of WIRESHIELD. This allows maximum penetration into the core of wire ropes and umbilicals, helping to increase pumpability during

automatic application and helps minimise blockages returning to grease consistency when shear is removed.

BIOGEN®

Offering next generation technology, our BIOGEN products are the ideal solution to the harsh demands found in heavy industrial environments. Designed specifically for use in offshore and subsea applications, our advanced BIOGEN wire rope and ROV umbilical lubricants offer maximum protection where environmental performance cannot be compromised.



BIODEGRADABLE
WIRE ROPE
LUBRICANTS

BIOGEN WIRESHIELD

TEMP RANGE
-50°C to +180°C



BIOGEN WIRESHIELD is a dark grey gel designed to immediately transform into a fluid consistency under shear to aid penetration into the core of the rope.

Part code	Size
20064	18kg
20069	160kg

- ▶ Market leading corrosion protection
- ▶ Ideal for use on ROV umbilicals
- ▶ Biodegradability, minimal eco-toxicity and low bioaccumulation potential
- ▶ Pseudoplastic rheology increases penetration of the lubricant - enhanced by the use of a high pressure applicator
- ▶ Excellent lubricating properties which reduces wear on wires and strands, ultimately maximising service life
- ▶ Highly stable in the presence of salt water, ensuring protection when exposed to sea water for extended periods of time

CORROSION PROTECTION TEST



- 1 - BIOGEN WIRESHIELD
- 2 - COMPETITOR A
- 3 - COMPETITOR B



BIOGEN ROPE DRESSING

TEMP RANGE
-50°C to +180°C



BIOGEN Rope Dressing is a soft, black, high performance wire rope lubricant designed to transform into a fluid consistency under shear to aid penetration into the core of the rope.

Part code	Size
20070	18kg

- ▶ Outstanding corrosion protection
- ▶ High performance hydrophobic barrier
- ▶ For use in hottest and coldest climates
- ▶ VGP Compliant

BIOGEN FLUID

TEMP RANGE
-50°C to +180°C



BIOGEN Fluid is a high performance biodegradable grease in a biodegradable solvent carrier, featuring advanced pseudoplastic rheology.

Part code	Size
20085	20L

- ▶ Multi-purpose lubricant for use on wire ropes, chains, pulleys, springs, nuts and bolts
- ▶ Industry leading corrosion protection
- ▶ Excellent de-watering properties
- ▶ Suitable for use in active heave compensation as well as arctic conditions



WIRE ROPE

Our WIRE ROPE products have been developed to meet customer needs, offering a range of high-performance solutions to protect heavily loaded wire ropes in wet, dusty and hostile environments.

WIRESHIELD

Featuring pseudoplastic rheology, WIRESHIELD is designed to transform into a fluid like consistency under shear.

- ▶ Outstanding corrosion protection
- ▶ Thin, non-tacky film prevents build up of dust and dirt
- ▶ Translucent film allows easier and more effective rope inspection
- ▶ Does not drip or fling off due to the pseudoplastic rheology

Part code	Size
20054	18kg
20058	160kg

TEMP RANGE
-30°C to +100°C



WIRE ROPE DRESSING

A tenacious, semi-fluid, non-melting grease designed for complete lubrication and corrosion protection on most types of wire ropes, particularly in hostile conditions.

- ▶ Excellent internal and external lubrication
- ▶ Outstanding internal and external corrosion protection
- ▶ Resistant to sea water
- ▶ Approved to NATO and Naval Standards

Part code	Size
20026	4kg
20024	18kg

TEMP RANGE
-30°C to +100°C



WIRE ROPE FLUID

A high performance de-watering wire rope fluid designed for complete lubrication and corrosion protection of most types of wire ropes, particularly in wet and hostile conditions.

- ▶ Excellent de-watering properties
- ▶ Complete internal and external corrosion protection
- ▶ Protects against wear on guides and sheaves
- ▶ Approved to NATO and Naval Standards

Part code	Size
20045	20L

TEMP RANGE
-30°C to +100°C



*Image is a representative example and not the exact packaging

WIRE ROPE SPRAY

A high performance de-watering wire rope aerosol designed for complete lubrication and corrosion protection of most types of wire ropes, particularly in wet and hostile conditions.

- ▶ Excellent de-watering properties
- ▶ Resistant to sea water
- ▶ Complete internal and external corrosion protection
- ▶ Protects against wear on guides and sheaves

Part code	Size
20015	400ml

TEMP RANGE
-30°C to +100°C



TUFLUBE

Designed to reduce equipment failure and downtime, TUFLUBE open gear and jacking lubricants offer excellent resistance to corrosion and wear, even in damp and wet conditions.



CRANE BOOM
LUBRICANTS



OPEN GEAR
LUBRICANTS

TUFGEAR

A heavy duty water resistant long life grease for the lubrication of all types and sizes of open gears.



OPEN GEAR
LUBRICANTS

BIOGEN TUFLUBE

TEMP RANGE
-60°C to +170°C



BIOGEN TUFLUBE is an extreme heavy duty grease, designed to protect heavily loaded, slow moving mechanisms in the wettest and most corrosive conditions.

Part code	Size
18404	18kg

- ▶ Unique additive package protects against metal wear
- ▶ Physical and chemical protection against pitting and corrosion
- ▶ Blend of Hi-Tac boosters ensures staying power, can even be applied when submerged
- ▶ Ideal for use in the hottest and coldest global climates

TUFLUBE ALLWEATHER

TEMP RANGE
-30°C to +70°C



TUFLUBE ALLWEATHER is a black extreme heavy duty grease, designed to protect heavily loaded, slow moving mechanisms in the wettest and most corrosive conditions.

Part code	Size
18271	400g
18276	5kg
18244	18kg

- ▶ Unique additive package protects against metal wear
- ▶ Physical and chemical protection against pitting and corrosion
- ▶ Extremely resistant to water wash off, can even be applied when submerged
- ▶ Tough, tenacious, self-repairing film making it the ideal lubricant for heavily loaded sliding surfaces

TUFLUBE EXTREME

TEMP RANGE
-50°C to +160°C



TUFLUBE EXTREME is a white extreme heavy duty, versatile and highly adhesive grease formulated for telescopic crane booms, protecting and lubricating them in the wettest and most corrosive conditions.

Part code	Size
18176	4.5kg
18174	18kg

- ▶ High load carrying capacity protecting against metal wear
- ▶ Highly water resistant, including protection against salt water
- ▶ Light coloured grease for high visibility and ease of inspection
- ▶ Tough, tenacious, self-repairing film making it the ideal lubricant for heavily loaded sliding surfaces

TUFGEAR UNIVERSAL

TEMP RANGE
-40°C to +120°C



A heavy duty open gear grease containing a blend of high load carrying solids. TUFGEAR Universal is a highly water resistant, long life grease for the lubrication of all types and sizes of open gears.

Part code	Size
18302	400g
18305	5kg
18304	18kg

- ▶ Outstanding EP performance - protects gears from wear
- ▶ Excellent corrosion resistance to protect in humid, damp and even wet conditions
- ▶ Excellent adhesion to gear teeth – no fling off
- ▶ Approved to NATO, Naval and RAF Standards

TUFGEAR SPRAY

TEMP RANGE
-10°C to +100°C



A high viscosity, heavy duty open gear grease containing a blend of high load carrying solids to provide excellent anti pitting properties.

Part code	Size
18105	400ml

- ▶ Excellent corrosion resistance to protect in humid, damp and even wet conditions
- ▶ Outstanding EP performance
- ▶ Thin film minimizes attraction of dust and dirt
- ▶ Resistant to water - increases re-lubrication intervals

TUFGEAR 100

TEMP RANGE
-30°C to +120°C



Heavy-duty open gear lubricant for demanding applications. Developed for the lubrication of large girth gears and other open gears particularly where automatic lubrication systems are used.

Part code	Size
18219	185kg

- ▶ Designed for use on rotary kilns and waste pulverisers
- ▶ Outstanding EP performance
- ▶ Good adhesion to the gear teeth-no fling off
- ▶ Excellent water resistance

WIRE ROPE
SELECTOR



OPEN GEARS
SELECTOR



		BIOGEN WIRESHIELD	BIOGEN ROPE DRESSING	BIOGEN Fluid	WIRESHIELD	WIRE ROPE DRESSING	WIRE ROPE FLUID	WIRE ROPE SPRAY
TYPICAL APPLICATIONS / SYSTEMS	ROV / submerged ropes	★★★★	★★★★	★	★★	★	★	★
	Ship Lifts	★★★★	★★★★	★★★★	★★★★	★★★★	★★	★
	Ship to Shore Cranes	★★★★	★★★★	★	★★★★	★★★★	★	★
	Onshore cranes	★★	★★	★★	★★★★	★★★★	★★	★★★★
	Static Ropes	★★	★★	★★★★	★★	★★	★★★★	★★★★
APPLICATION METHOD	Manual	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	-
	Automatic lubricator	★★★★	★★★★	★★	★★★★	★★	★★	-
	Dip	-	-	★★★★	-	★	★★★★	-
	Aerosol	-	-	-	-	-	-	★★★★
ENVIRONMENTAL	Biodegradable	✓	✓	✓	-	-	-	-
	VGP	-	✓	-	-	-	-	-
	Corrosion Resistance	★★★★	★★	★★★★	★★★★	★★	★★	★★
	Water Wash-Off Resistance	★★★★	★★	★	★★★★	★★	★	★
TEMPERATURE RANGE		-50°C to +180°C	-50°C to +180°C	-50°C to +180°C	-30°C to +100°C	-30°C to +100°C	-30°C to +100°C	-30°C to +100°C
PENETRATION		★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
APPEARANCE		Soft black/grey grease	Soft black grease	Dark grey fluid	Soft translucent amber grease	Soft grey/black grease	Grey/black fluid	Soft grey/black grease
PART CODE		18kg - 20064 160kg - 20069	18kg - 20070	20L - 20085	18kg - 20054 160kg - 20058	4kg - 20026 18kg - 20024	20L - 20045	400ml - 20015

KEY TO PERFORMANCE - NOT SUITABLE ★ GOOD ★★ VERY GOOD ★★★ EXCELLENT

*Image is a representative example and not the exact packaging

		BIOGEN TUFLUBE	TUFLUBE ALLWEATHER	TUFLUBE EXTREME	TUFGEAR UNIVERSAL / SPRAY	TUFGEAR 100
TYPICAL APPLICATIONS / SYSTEMS	Jack Up Rigs	★★★★	★★★★	★★	★	-
	Cement Kilns	★	★	★	★★★★	★★★★
	Rising Spindle Applications i.e. Penstocks / Sluice Gates	★★	★★★★	★★★★	★	★★
	Crane Booms	★	★★★★	★★★★	★	-
	Rack & Pinion	★★★★	★★	★★	★★★★	★★
GEAR DESIGN	Worm	★★	★★★★	★★★★	★★★★	★★★★
	Girth Gear	★★	★★	★★	★★★★	★★
	Spur	★★	★★★★	★★★★	★★★★	★★★★
	Bevel	★★	★★	★★	★★★★	★★
APPLICATION METHOD	Manual	★★★★	★★★★	★★★★	★★★★	★★
	Automatic lubricator	★★	★★	★★	★	★★★★
	Sump	-	★	-	-	★★★★
	Aerosol	-	-	-	★★★★	-
ENVIRONMENTAL	Biodegradable	✓	-	-	-	-
	HOCNF E	✓	-	-	-	-
	Corrosion Resistance	★★★★	★★★★	★★★★	★★★★	★★★★
	Water Wash-Off Resistance	★★★★	★★★★	★★★★	★★★★	★★
TEMPERATURE RANGE		-60°C to +170°C	-30°C to +70°C	-50°C to +160°C	-40°C to +120°C	-30°C to +120°C
APPEARANCE		Beige grease	Smooth black grease	Smooth off white grease	Smooth black adhesive grease	Soft dark grey grease
PART CODE		18kg - 18404	400g - 18271 5kg - 18276 18kg - 18244	4.5kg - 18176 18kg - 18174	400ml - 18105 400g - 18302 5kg - 18305 18kg - 18304	185kg - 18219

KEY TO PERFORMANCE - NOT SUITABLE ★ GOOD ★★ VERY GOOD ★★★ EXCELLENT



Anti-Seize & Assembly

Gearbox & Hydraulic Oils

ANTI-SEIZE & ASSEMBLY

ANTI-SEIZE & ASSEMBLY products are applied to bolts, fasteners, flanges and other clamped interfaces to prevent galling, seizing and corrosion, as well as lubricating to ease disassembly.



ANTI-SEIZE

SAPPHIRE® HI-TORQUE

SAPPHIRE HI-TORQUE is a range of semi-synthetic gear oils that minimise wear, thereby reducing risk of breakdown and significantly extending gear box life.

SAPPHIRE® HI-POWER

SAPPHIRE Hi-Power is a range of hydraulic, compressor and airline oils, designed to maximise power transfer whilst lubricating and dissipating heat to protect machinery and extend equipment life.



HYDRAULIC OILS



GEARBOX OILS

ANTI-SEIZE COMPOUND & SPRAY

TEMP RANGE
-10°C to +1100°C



ANTI-SEIZE Spray is a copper-based, lead-free anti-seize aerosol, reinforced with graphite and molybdenum disulphide to further enhance its performance.

- Prevents pick-up and seizure
- Excellent water resistance, even when submerged
- Designed for use on all static fasteners and mechanisms prone to seizure
- Highly resistant to salt water environments

Part code	Size
14015	400ml
14030	85g
14033	500g
14035	6kg
14038	18kg



PENETRATING SPRAY

PENETRATING Spray is a powerful release agent for corroded threaded fasteners and other seized components.

- Provides excellent penetration in seized or corroded fasteners even after prolonged periods of seizure
- Provides efficient loosening of fasteners when seized due to rust, scale, dirt, grime etc.
- Dispensed via a powerful jet spray which penetrates rust and debris
- The fast acting formulation minimizes time and effort when dealing with seized fasteners

Part code	Size
14021	300ml



DRY MOLY SPRAY

TEMP RANGE
-50°C to +450°C

DRY MOLY Spray is a high purity, extreme load dry film molybdenum disulphide spray designed for use where a wet lubricant cannot be tolerated.

- Prevents galling, pick-up and seizure
- Resistant to high loads (up to 7,000 kg/cm2)
- Excellent wear resistance
- Fast drying

Part code	Size
10025	400ml



SAPPHIRE HI-TORQUE

TEMP RANGE
-20°C to +120°C



- Reduces wear to significantly extend gear box life
- Contains unique SUPS* technology to protect gear teeth on start-up
- High performance, even under extreme pressure
- Decreases oil change frequency, reducing total cost of ownership

Description	Part code	Size	Description	Part code	Size
Hi-Torque 150	21055	20l	Hi-Torque 320	21025	20l
	21059	200l		21029	200l
Hi-Torque 220	21015	20l	Hi-Torque 460	21035	20l
	21019	200l			
			Hi-Torque 680	21045	20l

*Start Up Protection System

SAPPHIRE HI-POWER

TEMP RANGE
-20°C to +120°C



- Reduces material wear to significantly extend component life
- High thermal stability increases oil change intervals and prevents sludge formation
- Low carry-over system eases air and oil separation, ensuring clean air and maximum power transfer
- Available in a range of viscosities for all pneumatic and hydraulic applications

Description	Part code	Size	Description	Part code	Size
Sapphire Hi-Power 32	52545	20l	Sapphire Hi-Power 68	52565	20l
	52549	200l		52569	200l
Sapphire Hi-Power 46	52555	20l	Sapphire Hi-Power 100	52575	20l
	52559	200l		52579	200l



Bearing Greases

Bearing Greases & Corrosion Protection

SAPPHIRE®

Revolutionary long life bearing grease for optimum lubrication. Suitable for all types of ball, roller and plain bearings.



CORROSION PROTECTION



BEARING GREASES

SAPPHIRE 2,1,000



SAPPHIRE is designed for medium to heavy duty ball, roller and plain bearings. They are ideal for use in slower moving bearings operating under extreme conditions such as shock loads and wet environments found in all types of industrial applications.

- ▶ Triple life bearing grease
- ▶ Extreme load and wear performance
- ▶ Extended lubrication intervals
- ▶ Revolutionary multi complex grease

TEMP RANGE
-30°C to +160°C

Description	Part code	Size
Sapphire 2	12171	400g
	12176	5kg
	12175	18kg
	12178	50kg
	12179	185kg

Description	Part code	Size
Sapphire 1	12601	400g
	12614	18kg
	12609	185kg

Description	Part code	Size
Sapphire 000	12284	18kg

SAPPHIRE EXTREME

TEMP RANGE
-10°C to +235°C



SAPPHIRE Extreme is a high performance, long life bearing grease for use in extreme environments.	Part code	Size
▶ A non melting grease, provides outstanding performance at high temperatures	12211	400g
	12216	5kg
	12214	18kg
	12218	50kg
	12219	160kg
▶ Excellent resistance to vibration and shock loads		
▶ Extreme load and wear performance		
▶ Highly water resistant, provides outstanding corrosion protection		



SAPPHIRE HI-LOAD 2

TEMP RANGE
-30°C to +150°C



SAPPHIRE Hi-Load 2 is a long life, soap thickened bearing grease particularly suited for slow moving bearings subjected to heavy loads, shock and vibration.

- ▶ Protects equipment under extreme conditions
- ▶ Ideal for shock loads and vibration
- ▶ Incorporates molybdenum disulphide (MoS2) which has a natural affinity to metal
- ▶ MoS2 can provide emergency dry lubrication where required

Part code	Size
12761	400g
12765	5kg
12764	18kg

SAPPHIRE ADVANCE 2

TEMP RANGE
-30°C to +160°C



SAPPHIRE Advance 2 is the ultimate multi-purpose grease offering outstanding performance when compared to other conventional greases, excelling in high speed applications such as electric motors and fan bearings.

- ▶ High speed applications such as fan and motor bearings
- ▶ Extended lubrication intervals
- ▶ Good corrosion resistance
- ▶ Fortified with PTFE

Part code	Size
12441	380g
12446	18kg

Z30 SPRAY & FLUID

TEMP RANGE
-20°C to +110°C



Z30 is a corrosion inhibitor spray offering a heavy duty waxy film for long term outdoor corrosion protection of various machinery parts and pieces of equipment in convenient aerosol form. Heavy duty waxy film for long term outdoor corrosion protection of various machinery parts.

- ▶ Thin, flexible film – does not crack or chip
- ▶ Heavy duty, waxy film for long term corrosion protection
- ▶ Excellent corrosion protection outdoors for up to 2 years
- ▶ Good de-watering properties and penetration

Part code	Size
37020	300ml
37022	5l
37028	20l

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