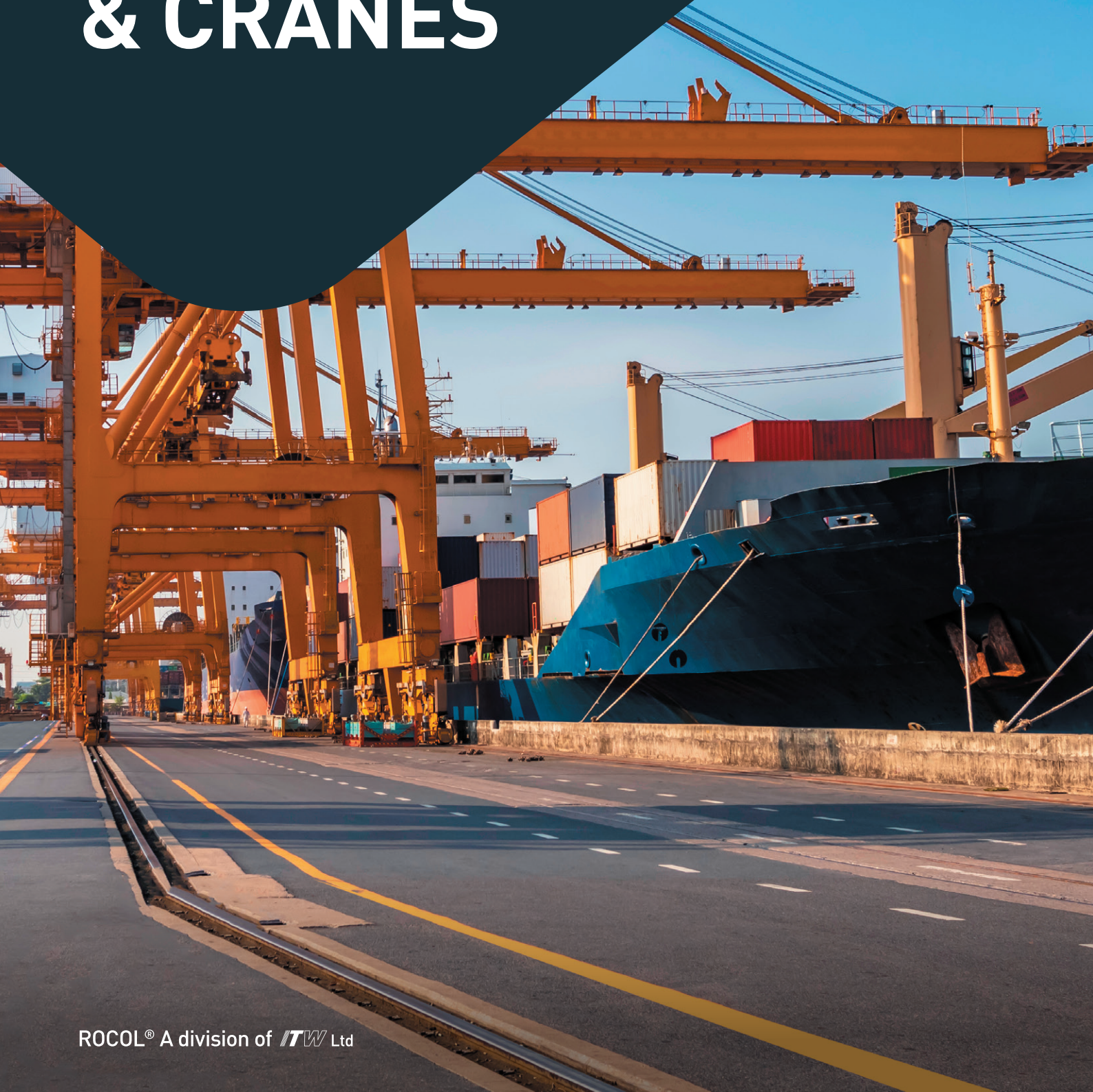


Performance you can trust



LUBRICATION FOR PORTS & CRANES



Contents

From product concept, design and development through to technical expertise and customer services, ROCOL® supports all lubrication needs for ports and cranes.

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Customer Service: +44 (0)113 232 2700

One simple solution

ROCOL® recognises that the ports industry is a highly demanding and competitive environment. The equipment and machinery in ports face immense challenges, from extreme weather conditions and high-pressure operations to prolonged exposure to corrosive environments. This means that reliability and performance of lubricants is vital to ensure uninterrupted operations, reduced downtime, and prolonged the life of critical equipment.

To keep your machinery functioning at its best requires a high level of care, not only on the surface but deep into its core componentry, with every last bearing, chain and gear catered to. But not all maintenance solutions are equal and using a trusted, reputable source who understands the challenges ports face, is crucial in keeping equipment running to ensure an efficient operation.

A world leader in high-performance lubrication and machine maintenance solutions, ROCOL® supports thousands of industrial sector brands to care for their equipment and keep production lines operational. Developed by our in-house team of highly skilled engineers and chemists, our technically advanced systems are relied on by leading brands across the globe, designed to keep the world's machinery moving efficiently, delivering outstanding results for longer.



Performance you can trust

ROCOL® delivers high-performance solutions that help ports run smoother, safer, and more efficiently. With products engineered to perform in the most demanding environments, we provide the reliability and peace of mind that port operations need to thrive.

ROCOL® HAS A LUBRICATION SOLUTION FOR:



Ship to shore cranes



Mobile cranes



Rubber tyre gantrys



Rail mounted gantrys



Reach stackers



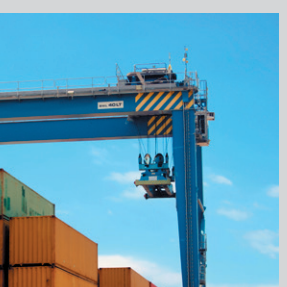
Forklifts



Tugboats



Grabs



ENGINEERED FOR EXTREME ENVIRONMENTS

ROCOL® products are designed to perform under the most demanding conditions, including high loads, extreme weather, and corrosive environments typically found in ports.



EXCEPTIONAL CORROSION PROTECTION

Ports and cranes face constant exposure to moisture, salt, and humidity, leading to corrosion. ROCOL's corrosion resistant products, such as wire rope lubricants and protective sprays, offer long-lasting protection, reducing maintenance costs and extending equipment life.



PROVEN RELIABILITY UNDER HEAVY LOADS

Cranes and port equipment operate under immense pressure and heavy loads. ROCOL's high-performance lubricants are formulated to provide superior load carrying capacity, ensuring smooth operations and minimising wear and tear.



REDUCED DOWNTIME, INCREASED EFFICIENCY

Downtime in ports can lead to significant financial losses. ROCOL products are designed for durability and extended service intervals, reducing maintenance requirements and ensuring uninterrupted operations.



VERSATILE RANGE FOR ALL APPLICATIONS

Whether it's wire ropes, gears, chains, or sliding surfaces, ROCOL offers a comprehensive portfolio of lubricants and greases to meet the diverse needs of port and crane equipment.



ENVIRONMENTALLY RESPONSIBLE SOLUTIONS

With sustainability in focus, ROCOL offers environmentally considerate products like biodegradable lubricants, minimising environmental impact without compromising performance.

Product Selector

Use this chart to select the best ROCOL® product for your needs

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Wire Ropes	BIOGEN® WIRESHIELD	7
	BIOGEN® Rope Dressing	7
	BIOGEN® Fluid	7
	WIRESHIELD®	8
	WIRE ROPE Dressing	8
	WIRE ROPE Fluid/Spray	8
Telescopic and Slide Booms	TUFLUBE® Extreme	10
	TUFLUBE® Allweather	10
Open Gears and Sheaves	TUFGEAR® Universal	11
	SAPPHIRE® Aqua 2	11
Closed Gears	SAPPHIRE® Hi-Torque 150, 220, 320, 460, 680	11
Chains	CHAIN & DRIVE Fluid /Spray	12
Corrosion Control	ANTI-SEIZE Compound / Spray	12
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Bearings	SAPPHIRE® 2	13
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Grabs	SAPPHIRE® Aqua 2	11
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	ANTI-SEIZE Compound / Spray	12

Wire Ropes

BIOGEN® WIRESHIELD

High performance biodegradable wire rope lubricant

- ▶ Highly resistant to water wash off
- ▶ Pseudoplastic rheology for no drip or fling off
- ▶ Reducse abrasion and wear
- ▶ Simple & safe application

Product Code	Size
20064	18kg
20069	160kg

TEMP RANGE
-50°C to +180°C



BIOGEN® ROPE DRESSING

A biodegradable & VGP compliant wire rope lubricant

- ▶ Resistant to salt water
- ▶ Low fling off
- ▶ Highly resistant to water wash off
- ▶ Highly penetrative ensuring penetration and protection of the core of the rope.
- ▶ Prevents wear on rope strands



BIOGEN® Fluid

Environmentally considerate grease in a biodegradable carrier fluid

- ▶ Multi-purpose lubricant for use on wire ropes, chains, pulleys, springs, nuts and bolts.
- ▶ Industry leading corrosion protection.
- ▶ Pseudoplastic rheology increases penetration of the lubricant.

Product Code	Size
20085	20L

TEMP RANGE
-50°C to +180°C



WIRESHIELD®

High performance wire rope lubricant featuring advanced Pseudoplastic rheology.

- ▶ Excellent lubricating properties which reduces wear on wires and strands, ultimately maximising service life.
- ▶ Offers outstanding corrosion protection and is highly resistant to water wash off.
- ▶ Prevents build up of dust and dirt.

Product Code	Size
20054	18kg
20058	160kg

TEMP RANGE
-30°C to +100°C



Wire Ropes

WIRE ROPE Dressing

High performance semi fluid wire rope dressing grease providing excellent corrosion protection in multiple environments including saltwater and under water

- ▶ Sufficiently fluid enough to penetrate through the strands to the core of the rope whilst being sufficiently greasy to resist flying off.
- ▶ High performance semi fluid wire rope dressing grease provides excellent corrosion protection in multiple environments including saltwater and underwater.
- ▶ Exhibits excellent lubrication properties which reduce wear on the wires and strands thereby maximising the service life of the rope.
- ▶ Highly resistant to water wash off and offers outstanding corrosion protection.

Product Code	Size
20026	4kg
20024	18kg
20039	160kg

TEMP RANGE
-30°C to +100°C



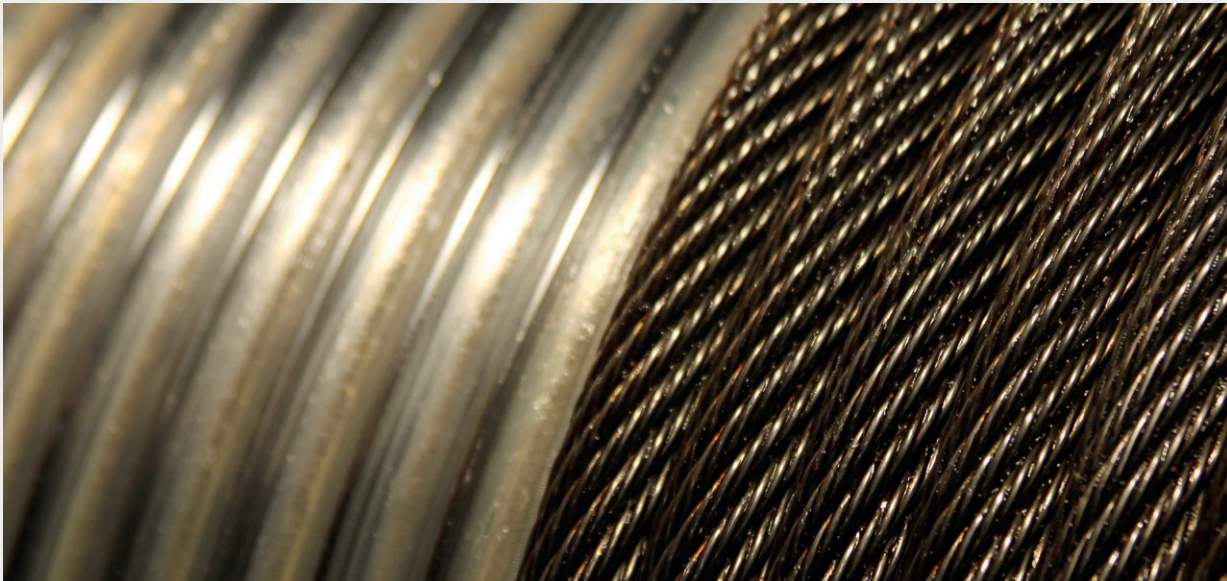
WIRE ROPE Spray/Fluid

High performance de-watering wire rope lubricant aerosol and fluid

- ▶ Excellent penetrating and dewatering properties making it ideal for use on wet ropes or ropes that are going into storage.
- ▶ Exhibits excellent lubrication properties which reduce wear on the wires and strands thereby maximizing the service life of the rope.
- ▶ Highly resistant to water wash off and offers outstanding corrosion protection.

Product Code	Size
20015	400ml
20045	20l

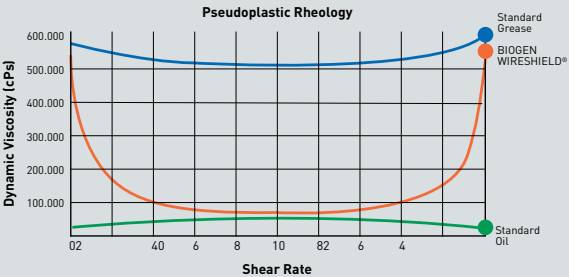
TEMP RANGE
-30°C to +100°C



Wire Rope Selector

	BIOGEN® WIRESHIELD	BIOGEN® ROPE DRESSING	BIOGEN® FLUID	WIRESHIELD®	WIRE ROPE DRESSING	WIRE ROPE Fluid / Spray
TARGET APPLICATIONS	Subsea	Shipping	Subsea	Shipping	Shipping	Shipping
	Offshore	Dredging	Offshore	Mining	Mining	Mining
	Ports & Docks	Ports & Docks	Shipping	Ports & Docks	Ports & Docks	Ports & Docks
		Deep Sea Fishing	Dredging	Construction & General Lifting	Construction & General Lifting	Construction & General Lifting
			Ports & Docks			
			Deep Sea Fishing			
CORROSION RESISTANCE (ASTM B-117 SALT SPRAY TEST)	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
	>4000 hours	>1000 hours	>1000 hours	>4000 hours	>1000 hours	>1000 hours
OPERATING TEMPERATURE RANGE	★★★★★ -50 to +180°C Does not melt with active heave compensation; suitable for arctic conditions	★★★★★ -50 to +180°C Does not melt with active heave compensation; suitable for arctic conditions	★★★★★ -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	★★★★★ Pseudoplastic rheology aids penetration of the lubricant into strands of wire rope, ensuring deeper protection	★★★★★ Semi fluid grease aids penetration into the rope	★★★★★ Semi fluid grease aids penetration into the rope
ENVIRONMENTAL PROFILE	★★★★★ Minimally toxic, non-bioaccumulative and biodegradable. No sheen formula	★★★★★ VGP compliant: minimally toxic, non-bioaccumulative and biodegradable. No sheen formula	★★★★★ Biodegradable and environmentally considerate	★★ Traditional mineral oil technology	★★ Traditional mineral oil technology	★★ Traditional mineral oil technology
WATER WASH OFF (ASTM D4049)	★★★★★ Exceptional water wash off resistance. Ideal for subsea and submerged applications	★★★★★ Exceptional water wash off resistance. Ideal for subsea and submerged applications		★★★★★ Highly resistant to water wash off	★★★★★ Good resistance to water wash off	
APPEARANCE	Soft metallic black grease	Soft black grease	Dark grey fluid	Soft translucent amber grease	Soft grey/black grease	Grey fluid / spray

PSEUDOPLASTIC RHEOLOGY



- Shear or agitation reduces the dynamic viscosity of BIOGEN® WIRESHIELD, WIRESHIELD®, BIOGEN® ROPE DRESSING and BIOGEN® FLUID.
- Increases ease of pumping, speeds up lubrication and minimises blockages.
- Pseudoplastic rheology aids penetration into ropes.
- At rest BIOGEN® WIRESHIELD, WIRESHIELD®, BIOGEN® ROPE DRESSING and BIOGEN® FLUID. behaves like a standard grease, optimising wash off and fling off resistance.

- Unique in the market
- Takes wire rope lubrication into the 21st Century
- Product Differentiator

Telescopic and Slide Booms

TUFLUBE EXTREME

Extreme heavy duty, versatile and highly adhesive grease formulated for telescopic crane booms.

- ▶ High load carrying capability.
- ▶ Water resistance including salt water.
- ▶ Light coloured grease for high visibility and ease of inspection.
- ▶ Reduces friction and downtime.

Product Code	Size
18176	4.5kg
18174	18kg

TEMP RANGE
-50°C to +160°C



ALSO SUITABLE FOR OPEN GEARS AND SHEAVES

TUFLUBE Allweather

Heavy Duty Jacking and Open Gear Grease

- ▶ Unique additive package protects against metal wear.
- ▶ Physical and chemical protection against pitting and corrosion.
- ▶ Tough, tenacious, self-repairing film which maintains a lubricant film on the surface longer than conventional lubricants.
- ▶ Ideal for use in the hottest and coldest global climates.

Product Code	Size
18271	400g
18276	5kg
18244	18kg

TEMP RANGE
-30°C to +180°C



Open Gears and Sheaves

TUFGEAR UNIVERSAL

Heavy-duty open gear grease containing a blend of high load carrying solids designed to lubricate and protect gears used in extreme environments

- ▶ Combination of high load carrying solids boosts the heavy-duty performance particularly in highly loaded applications.
- ▶ Demonstrates outstanding EP performance with a weld load of 800 kg (about 1763.7 lb).
- ▶ Excellent corrosion resistance to protect in humid, damp and even wet conditions.
- ▶ Maintains integrity in extreme conditions and continues to protect over extended lubrication intervals, reducing equipment failure, downtime and lubricant usage.

Product Code	Size
18302	400g
18305	5kg
18304	18kg

TEMP RANGE
-40°C to +120°C



SAPPHIRE® Aqua 2

Multi-purpose water-resistant EP bearing grease ideal for applications operating in damp, humid, wet or water-submerged conditions.

- ▶ Aluminium complex soap technology for outstanding high load performance superior to standard soap-thickened lubricants.
- ▶ Strong adhesive quality resists water wash off, submergence and saltwater tidal flow.
- ▶ Excellent corrosion resistance in humid, damp or wet conditions.
- ▶ Resistance to oxidation over extended intervals, reducing lubricant usage and equipment failure.

Part Code	Size
12751	380g
12755	4kg
12754	18kg
12758	50kg

TEMP RANGE
-20°C to +150°C



Closed Gears

SAPPHIRE® Hi-Torque

High-performance, semi-synthetic gearbox fluids formulated with SUPS to provide maximum protection with all types of gearboxes.

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



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

TEMP RANGE
-20°C to +120°C

Chains

CHAIN & DRIVE Fluid / Spray

High-performance EP chain and conveyor lubricant with a unique formula ensuring maximum performance for penetration, lubrication and corrosion protection.

- ▶ Provides excellent penetration into chain links and pins.
- ▶ Highly tenacious water-resistant film to dewater and protect all types of chains in wet or humid conditions.
- ▶ Offers excellent corrosion protection on chains in hostile environments.
- ▶ Great adhesion reducing drips and fling off.



TEMP RANGE

-15°C to +120°C

Part Code	Size
22001	300ml
22306	5l
22309	20l

Corrosion Control



ANTI-SEIZE Compound / Spray

Copper-based, lead-free anti-seize spray with aluminium for general purpose use and at extremely high temperatures.

- ▶ Prevents seizure, galling and corrosion.
- ▶ Coefficient of friction 0.15.
- ▶ Excellent water resistance in saltwater and when submerged.

TEMP RANGE

-10°C to +1100°C

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



Z 30 Fluid / Spray

Specialist formula silicone and chlorine-free film ideal for long-term outdoor corrosion protection.

- ▶ Heavy-duty oil providing excellent corrosion protection outdoors for up to 2 years.
- ▶ Good de-watering properties and penetration.
- ▶ Ideal for protection of exposed metal parts.

TEMP RANGE

-20°C to +110°C

Part Code	Size
37020	300ml
37022	5l
37028	20l
37029	200l

Bearings



SAPPHIRE® 2 / 1 / 000

Heavy-duty bearing greases designed to lubricate and protect all types of ball, roller and plain bearings. Lasts three times as long as standard soap-based lubricants and is highly effective on cost.

- ▶ Highly resistant to oxidation providing greatly extended lubrication intervals.
- ▶ Excellent corrosion resistance in humid, damp or wet conditions.
- ▶ Highly tenacious lubricants with outstanding film strength that stays intact even in severe operating conditions.
- ▶ Multi-complex soap technology enhances shear stability.

SAPPHIRE® 2

Part Code	Size
12171	400g
12176	5kg
12175	18kg
12178	50kg
12179	185kg

SAPPHIRE® 000

Part Code	Size
12284	18kg

TEMP RANGE

-30°C to +160°C

SAPPHIRE® 1

Part Code	Size
12601	400g
12609	185kg



SAPPHIRE® DYNAMIC

Calcium Sulphonate complex grease engineered for high temperatures, extreme pressures and outstanding resistance to water.

- ▶ Outstanding load carrying / EP performance with a weld load of 800 kg.
- ▶ Excellent corrosion and water resistance protecting in humid, wet conditions.
- ▶ Maintains integrity in extreme conditions and continues to protect over extended lubrication intervals.

Product Code	Size
12351	400g
12357	18kg
12353	185kg

TEMP RANGE

-20°C to +180°C



SAPPHIRE® Unilube

High performance lithium soap complex technology bearing grease with EP additives. Lubricates and protects of all types of ball, roller and plain bearings.

- ▶ Outstanding EP and high-speed performance on loads of 560kg.
- ▶ Highly resistant to oxidation with extended lubrication intervals reducing frequency of applications and equipment failure.
- ▶ Excellent corrosion resistance to protect in humid, damp and even wet conditions.
- ▶ Superior to standard soap thickened lubricants.
- ▶ Filled with SAPPHIRE Advance, it reduces manual labour and is ideal for hard to reach areas.

Part Code	Size
13012	125ml

TEMP RANGE

-30°C to +160°C

Grabs



SAPHIRE® Hi-Power

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.

- ▶ 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

HI-POWER 32	
Part Code	Size
52545	20l
52549	200l

HI-POWER 68	
Part Code	Size
52565	20l
52569	200l

TEMP RANGE
-20°C to +120°C

HI-POWER 46	
Part Code	Size
52555	20l
52559	200l

HI-POWER 100	
Part Code	Size
52575	20l
52579	200l



SAPHIRE® Dynamic

Engineered for high temperatures, extreme pressures and outstanding resistance to water.

Engineered with Calcium Sulphonate technology, SAPHIRE® Dynamic delivers extreme pressure resistance, exceptional water washout protection, and high thermal stability—operating at 180 °C (200 °C intermittently) without grease breakdown. Its superior oxidation resistance significantly extends lubrication life and helps reduce downtime. By preventing metal-to-metal contact and forming a self-renewing protective film, it ensures smoother operation and prolonged bearing life in the toughest industrial environments.

Part Code	Size
12351	400g
12357	18kg
12353	185kg

TEMP RANGE
-20°C to +180°C



SAPHIRE® Dynamic is an ideal solution for:

- ✔ Grabs
- ✔ Bearings
- ✔ Open Gears



Operates in tough conditions



High load capacity



Extreme temperature performance



Highly water resistant



Extended bearing life



Performance you can trust

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