



# ERIKS Lubrication Essentials

Your core lubrication range

know-how makes the difference

# ERIKS

# INTRODUCTION



## All the lubrication you need?

**ERIKS Lubrication Essentials is a range of high quality, readily available items designed to meet the most common industrial lubrication and maintenance applications.**



### Why Lubrication Essentials?

Feedback from our customers has indicated two common problems with lubricant supply:-

- The ever expanding plethora of different lubricants, additives and performance claims is becoming impossible to keep up with. Also, it's easy to become blinded by the "science" of performance claims which sound too good to be true, but how do you cut through the jargon and find out if it is really the right product for your application?
- When surveying customer stores we regularly encounter several stocked items which all do exactly the same job, multiplying our customers stock values and wasting their time managing excessive inventory.

### The Concept

With this in mind we set out to define a core range of items with excellent stock availability, hand picked, by our lubrication engineers to cover as wide a range of applications as possible while always maintaining the very best in performance and compliance.

### The Products

ERIKS Lubrication Essentials range meets the widest variety of applications imaginable from around 50 core items.

These are amongst our most popular products and are proven in hundreds of applications across as wide a variety of industrial sectors imaginable.

## INTRODUCTION



### The Key Benefits:-

#### ■ Proven performance

Hand picked, by our lubrication engineers from the leading brands. All established popular products with an impeccable track record of performance and consistency

#### ■ Simplify and reduce inventory

Designed to cover as wide a range of applications as possible with the most manageable number of items

#### ■ Excellent availability

All stocked in volume at the ERIKS National Distribution Centre

#### ■ Ensure compliance

Products from the leading brands with all the relevant certification

When you look at it that way, it should be all the lubrication you ever need...

### Products from the leading brands

#### Ambersil

Part of the CRC Industries group, a global leader in the chemical industry, Ambersil manufacture and market a wide range of maintenance, repair and overhaul (MRO) products.

#### Castrol

One of the most recognised and trusted global lubricant brands, dating all the way back to 1909. Today Castrol forms the main lubricants division of global petrochemical giant BP.

#### OKS

Based in Maisach Germany, OKS has engineered and manufactured specialist lubricants to world-class standards for over 30 years. The German MRO market leader, OKS is part of the global Freudenberg Group.

#### Rocol

Established in 1882 as Ragsone and Company, Rocol develops and manufactures high quality lubricants and maintenance products in Leeds. ROCOL is part of ITW, a multi-national US owned, Fortune 500 company.

#### RX

The RX range of products has been developed by ERIKS over many years of practical application engineering and development, this knowledge and understanding is designed into all of our products with the aim to increase your performance and extend reliability.

#### Simatec

An independent Swiss company who for more than 30 years have produced innovative products for the lubrication, fitting, removal and handling of bearings, gears and other mechanical components. Simatec's market leading products simplify maintenance and ensure safety at all times.

#### Triflow

Triflow, a brand of Ronseal, is a market leading high quality maintenance spray used by both consumers and professionals across the UK.

#### WD-40

Developed in 1953 by the Rocket Chemical Company of San Diego, California, it took 40 attempts to get their water displacing formula right and today the WD-40 Company sells to consumers and industrial markets globally.

# COMPLETE ERIKS LUBRICATION ESSENTIALS RANGE

## Bearing Grease

Multi-Purpose Grease EP2



Page 6

EP2-400G-RX

Multi-Purpose Lithium Complex Grease EP2



Page 7

EP2-HP-400G-RX

Wide Temperature Range, EP2 Bearing Grease



Page 8

OKS404-400ML

Food Grade EP Bearing Grease



NSF

Page 9

OKS479-400ML

High Temperature, EP2 Bearing Grease



Page 10

OKS422-400ML

## Lubricating Grease

White Grease Spray



Page 11

RX-WHITEGREASE-400ML

Food Safe Silicone Grease



NSF

Page 12

OKS1110-80ML  
OKS1110-500G  
OKS1111-400ML

Marine Grease



Page 13

OKS403-400ML

Wire Rope Spray



Page 14

ROC-WIRE ROPE SPRAY

Open Gear Grease Spray



Page 15

ROC-TUFGEAR SPRAY

## Gear Oil

Gear Oil



Page 16

CAS-ALPHASP220-20LTR  
CAS-ALPHASP320-20LTR

Synthetic Gear Oil



Page 17

CAS-ALPHASYNPG320-20KG

Food Grade Gear Oil



NSF

Page 18

OKS3720-5LTR  
OKS3720-25LTR

## Chain Oil

Chain Spray



Page 19

OKS671-400ML

Food Grade Chain Spray



Page 20

OKS3751-500ML

## Chain Oil

High Temperature Chain Oil



NSF

Page 21

OKS352-5LTR

## Hydraulic Oil

Hydraulic Oil



Page 22

EP32-25LTR-RX

Premium Hydraulic Oil



Page 23

CAS-HYSPINAWS32-20LTR  
CAS-HYSPINAWS46-20LTR

Food Grade Hydraulic Oil



NSF

Page 24

OKS3770-5LTR  
OKS3770-25LTR

## Compressor Oil

Compressor Oil



Page 25

CAS-AIRCOLPD100-20LTR

## Silicone Oil

Silicone Spray



Page 26

OKS1361-500ML

## Dry Film

PTFE Dry Film Lubricant



Page 27

EP2-400G-RX

## Automatic Lubricator

Simatec Lubricant Range



Page 28

SIMASL24-125  
SIMASL10-125  
SIMASL01-125  
SIMASL14-125  
SIMASL18-125



## Maintenance Spray

<p>Multi-Purpose WD Spray</p>  <p>Page 30</p> <p>WD40-400ML</p>	<p>Multi-Purpose Maintenance Spray with PTFE</p>  <p>Page 31</p> <p>TRIFLOW-500ML</p>	<p>High Performance Maintenance Spray</p>  <p>Page 32</p> <p>OKS641-400ML</p>	<p>Food Grade Maintenance Spray</p>  <p>Page 33</p> <p>OKS371-400ML</p>	<p>Rust Remover</p>  <p>Page 34</p> <p>OKS611-400ML</p>
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## Workbox Essentials

<p>Cutting Oil</p>  <p>Page 35</p> <p>OKS391-400ML</p>	<p>Leak Detector Spray</p>  <p>Page 36</p> <p>OKS2801-400ML</p>	<p>Belt Dressing Spray</p>  <p>Page 37</p> <p>OKS2901-400ML</p>	<p>Air Duster</p>  <p>Page 38</p> <p>AMB-AIRDUSTER-400ML</p>	<p>Jointing Compound</p>  <p>Page 39</p> <p>ROC-HYLOMAR-100G</p>
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## Anti-Seize

<p>Copper Anti-Seize Paste</p>  <p>Page 40</p> <p>OKS245-250G</p>	<p>Moly Paste (and Spray)</p>  <p>Page 41</p> <p>OKS221-400ML</p>	<p>Food Grade, Anti-Seize Paste</p>  <p>Page 42</p> <p>OKS252-250G</p>
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## Corrosion Protection

<p>Temporary Protective Film, Wax Based</p>  <p>Page 43</p> <p>OKS2101-400ML</p>	<p>Zinc Galvanising Spray, Permanent</p>  <p>Page 44</p> <p>OKS2511-400ML</p>
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## Cleaners

<p>Universal Cleaner</p>  <p>Page 45</p> <p>RX-DEGREASER-400ML</p>	<p>High Performance Universal Cleaner</p>  <p>Page 46</p> <p>OKS2611-500ML</p>	<p>Multi-Foam Cleaner</p>  <p>Page 47</p> <p>OKS2631-400ML</p>	<p>Brake Cleaner</p>  <p>Page 48</p> <p>RX-BRAKE-CLEANER-500ML</p>	<p>Electrical Contact Cleaner</p>  <p>Page 49</p> <p>OKS2621-400ML</p>
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## Cleaners

<p>Fast Drying Cleaner</p>  <p>Page 50</p> <p>AMB-AMBERKLE-400ML</p>	<p>Food Safe Industrial Cleaner</p>  <p>Page 51</p> <p>AMB-INDEGREASERFG-500ML</p>	<p>Biodegradable Cleaner</p>  <p>Page 52</p> <p>OKS2650-500ML</p>
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# BEARING GREASE

## Multi-Purpose Grease EP2



RX Multi-Purpose Grease EP2 is a light brown multi-textured grease utilising a lithium soap base and highly refined mineral oil. In addition, it has been fortified with additives to improve load carrying and corrosion resistance.

RX Multi-Purpose Grease is suitable for a wide range of applications within the industrial environment. Its formulation makes it especially suited for slow to medium speed bearings, in addition the incorporation of specially selected additives ensures it will protect equipment even under high loads and where moisture ingress may be a concern.

### Characteristics

Appearance:	Light brown
Extreme Pressure:	Yes
Oil:	Mineral
Soap:	Lithium

### Technical Specification

NGLI:	2
Temperature:	-20°C to 120°C
Base Oil Viscosity:	180 mm <sup>2</sup> /s
Four Ball Weld Load:	2,600N
DIN Standard:	DIN 51 502: KP2K-20

### Also Available: Side Lever Grease Gun

Suitable for use with 400ml cartridges

Part No: OKS5500



Part No:

EP2-400G-RX

### Also Available:

Please check stock availability for additional pack sizes



EP2-12.5KG-RX

## BEARING GREASE

## Multi-Purpose Lithium Complex Grease EP2

A specially developed high performance multi-purpose lithium complex grease for lubricating all anti-friction and plain bearings for use in industrial and automotive applications.

The grease has shown exceptional performance providing extended lubrication intervals over wide operating temperature range.

Exceptional mechanical stability extends re-lubrication intervals and oxidation stability provides lasting lubrication at high temperatures

### Characteristics

<b>Appearance:</b>	Red smooth grease
<b>Extreme Pressure:</b>	Yes
<b>Oil:</b>	Mineral
<b>Soap:</b>	Lithium complex

### Technical Specification

<b>NGLI:</b>	2
<b>Temperature:</b>	-30°C to +150°C
<b>Base Oil Viscosity:</b>	180 mm <sup>2</sup> /s
<b>Four Ball Weld Load:</b>	4,400N
<b>DIN Standard:</b>	DIN 51 502: KP2N-20



### Also Available: Side Lever Grease Gun

Suitable for use with 400ml cartridges

Part No: OKS5500



Part No:

EP2-HP-400G-RX

### Also Available:

Please check stock availability for additional pack sizes



EP2-HP-12.5KG-RX

# BEARING GREASE

## Wide Temperature Range, EP2 Bearing Grease



OKS 404 is a high performance lubricating grease formulated using a semi-synthetic lubricating oil and a lithium complex soap fortified with extreme pressure additives.

This provides OKS 404 with the capability to lubricate medium to high speed friction and roller bearings over a very wide temperature range and under high loads.

### Characteristics

Appearance:	Light coloured
Extreme Pressure:	Yes
Oil:	Semi-synthetic
Soap:	Lithium complex

### Technical Specification

NGLI:	2
Temperature:	-30°C to +150°C
Base Oil Viscosity:	100 mm <sup>2</sup> /s
Four Ball Weld Load:	2,800N
DIN Standard:	DIN 51 502: KP2P-30

### Also Available: Side Lever Grease Gun

Suitable for use with 400ml cartridges

Part No: OKS5500



Part No:

OKS404-400ML

### Also Available:

Please check stock availability for additional pack sizes



OKS404-1KG



OKS404-5KG



OKS404-25KG



OKS404-180KG



## BEARING GREASE

## Food Grade, EP Bearing Grease

OKS 479 is a high performance lubricating grease formulated to lubricate friction and roller bearings operating at medium to moderately high speeds across a very wide temperature range and under high loads.

Certified by NSF as H1 hence suitable for incidental contact with food and beverage products, additionally, consistency is NLGI 1 which provides excellent compatibility with centralised lubrication systems.

These inherent properties enable OKS 479 to be the ideal product to fulfill the majority of food and beverage manufacturing plant requirements and can therefore significantly reduce the on-site lubricant inventory.

### Characteristics

<b>Appearance:</b>	Light coloured
<b>Extreme Pressure:</b>	Yes
<b>Oil:</b>	Polyalphaolefin (PAO)
<b>Soap:</b>	Aluminium complex

### Technical Specification

<b>NGLI:</b>	1
<b>Temperature:</b>	-25°C to +160°C
<b>NSF Approval:</b>	H1 Reg No: 135675
<b>Base Oil Viscosity:</b>	400 mm <sup>2</sup> /s
<b>Four Ball Weld Load:</b>	2,200N
<b>DIN Standard:</b>	DIN 51 502: KPFHC1P-20



### Also Available: Side Lever Grease Gun

Suitable for use with 400ml cartridges

Part No: OKS5500



Part No:

OKS479-400ML

### Also Available:

Please check stock availability for additional pack sizes



OKS479-1KG



OKS479-5KG



OKS479-25KG

# BEARING GREASE

## High Temperature, EP2 Bearing Grease



OKS 422 is a high performance lubricating grease formulated to lubricate friction and roller bearings operating at high speeds and/or high temperatures. The capability to be used as a spindle bearing lubricant and also has the capability to operate at extremely low temperature.

Extremely impact and pressure resistant with excellent wear protection.

### Characteristics

Appearance:	Light coloured
Extreme Pressure:	Yes
Oil:	Polyalphaolefin (PAO)
Soap:	Barium complex

### Technical Specification

NGLI:	2
Temperature:	-40°C to +180°C
Base Oil Viscosity:	50 mm <sup>2</sup> /s
Four Ball Weld Load:	4,000N
DIN Standard:	DIN 51 502: KPHC2R-40

### Also Available: Side Lever Grease Gun

Suitable for use with 400ml cartridges

Part No: OKS5500



Part No:

OKS422-400ML

### Also Available:

Please check stock availability for additional pack sizes



OKS422-1KG



OKS422-5KG



OKS422-25KG



OKS422-180KG

## LUBRICATING GREASE

## White Grease Spray

High grade white grease with PTFE and lithium soap thickener, RX® White Spray Grease lubricates bearings, guiderails, chains and other mechanical components even if the application is low speed or heavy load.

It's dual effect means it applies and penetrates just like oil, but has the adhesion and water-resistance of grease.

### Characteristics

<b>Appearance:</b>	White
<b>Extreme Pressure:</b>	Yes
<b>Oil:</b>	Mineral
<b>Soap:</b>	Lithium
<b>Solid Lubricant:</b>	PTFE

### Technical Specification

<b>Temperature:</b>	-20°C to +120°C
<b>Base Oil Viscosity:</b>	(20°C) 160 mm <sup>2</sup> /s
<b>Four Ball Weld Load:</b>	3,900N



**Part No:**

**RX-WHITEGREASE-400ML**

# LUBRICATING GREASE

## Silicone Grease Food Safe



Market leading silicone grease for fittings, seals and plastic parts. Excellent compatibility to plastics, no drying out or bleeding, tasteless, odourless and highly adhesive.

A silicone grease for a broad range of applications, including food processing.

Certified by NSF as H1 hence suitable for incidental contact with food and beverage products.

### Characteristics

Appearance:	Transparent
Oil:	Silicone
Thickener:	Inorganic

### Technical Specification

NLGI:	3
Temperature:	-40°C to +200°C
NSF Approval:	H1 Reg. No. 124381
Base Oil Viscosity:	9,500 mm <sup>2</sup> /s
DIN Standard:	DIN 51 502: MSI3S-40

### Part No:

OKS1110-80ML

OKS1110-500G

OKS1111-400ML

### Also Available:

Please check stock availability for additional pack sizes



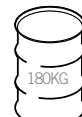
OKS1110-10ML



OKS1110-5KG



OKS1110-25KG



OKS1110-180KG

## LUBRICATING GREASE

## Marine Grease

OKS 403 is a premium lubricating grease for the lubrication of machine elements subjected to water or sea water. Offers excellent corrosion protection and adheres well to a range of surfaces.

OKS 403 has proven itself in wet operating environments and in coastal and marine areas the world over. Can also be used as a water pump grease.



## Characteristics

Appearance:	Brown
Extreme Pressure:	Yes
Oil:	Mineral
Soap:	Calcium

## Technical Specification

NGLI:	1-2
Temperature:	-25°C to +80°C
Base Oil Viscosity:	100 mm <sup>2</sup> /s
Four Ball Weld Load:	3,000N
DIN Standard:	DIN 51 502: KP1-2E-20



### Also Available: NEW RX Water Resistant Grease

A premium quality, water resistant calcium thickened grease for use in industrial applications where high loads together with water and humid atmospheres can effect lubricating performance and be detrimental to the protection of parts from corrosion. Suitable for plain and anti-friction bearings.

**Part No:** EP2-WR-400G-RX & EP2-WR-12.5KG-RX

**Part No:**

**OKS403-400ML**

### Also Available:

Please check stock availability for additional pack sizes



OKS403-1KG



OKS403-5KG



OKS403-25KG



OKS403-180KG

# LUBRICATING GREASE

## Wire Rope Spray



Rocol Wire Rope Spray is a high performance wire rope lubricant formulated from high quality solvent refined mineral oils and fortified with selected performance enhancing additives.

It is designed to penetrate wire rope and lubricate the wire strands and core, dehydrate wet ropes prior to storage plus provide a resilient coating to protect the rope exterior from corrosion.

### Characteristics

<b>Appearance:</b>	Grey fluid
<b>Extreme Pressure:</b>	Yes
<b>Oil:</b>	Mineral
<b>Thickener:</b>	Organically modified clay
<b>Solid Lubricant:</b>	Molybdenum disulphide

### Technical Specification

<b>NLGI:</b>	00
<b>Temperature:</b>	-30°C (0 min application temp) to +100°C
<b>Base Oil Viscosity:</b>	465 mm <sup>2</sup> /s
<b>Four Ball Weld Load:</b>	3,000N

**Part No:**

**ROC-WIRE-ROPE-SPRAY**

### Also Available:

Please check stock availability for additional pack sizes



ROC-WIRE-ROPE-5LTR



ROC-WIRE-ROPE-20LTR



## LUBRICATING GREASE

## Open Gear Grease Spray

Rocol Tufgear Spray is a high performance heavy duty open gear lubricant formulated utilising a non-melting base with a high viscosity mineral lubricating oil and solid lubricants.

It is designed to withstand high loads and provide an almost dry film once cured which will both lubricate and protect the wire rope from corrosion.



### Characteristics

<b>Appearance:</b>	Black almost dry film
<b>Extreme Pressure:</b>	Yes
<b>Oil:</b>	Mineral
<b>Thickener:</b>	Organically modified clay

### Technical Specification

<b>NLGI:</b>	2
<b>Temperature:</b>	-10°C to +100°C
<b>Base Oil Viscosity:</b>	>1000 mm <sup>2</sup> /s
<b>Four Ball weld load:</b>	7,845N



### Also Available: OKS Open Gear Grease Spray

OKS 491 is a spray applied high performance open gear lubricant formulated from graphite solid lubricant and resins to produce a dry film. Ideally suited for the lubrication of slow speed open gears which may be subjected to high loads or operating in dusty environments and can also be used for the dry lubrication of wire ropes and springs.

**Part No:** OKS491-400ML

**Part No:**

**ROC-TUFGEAR-SPRAY**

### Also Available:

Please check stock availability for additional pack sizes



ROC-TUFGEAR-UNI-400G



ROC-TUFGEAR-UNI-5KG



ROC-TUFGEAR-UNI-18KG

# GEAR OIL

## Gear Oil



Castrol Alpha SP 220 & 320 are formulated using high quality solvent refined mineral oils, fortified with sulphur-phosphorous compounds to impart anti-wear and extreme pressure properties.

These gear lubricants are recommended for the use of industrial gearboxes with forced circulation or splash and oil bath lubrication and meet many major OEM approvals.

### Characteristics

Appearance:	Colourless to light amber
Extreme Pressure:	Yes
Oil:	Mineral

### Technical Specification

	Alpha SP 220	Alpha SP 320
ISO VG:	220	320
Temperature:	-10°C to +105°C	-10°C to +105°C
Base Oil Viscosity:	220 mm <sup>2</sup> /s	320 mm <sup>2</sup> /s
DIN Standard	DIN 51 502: CLP220	DIN 51 502: CLP320

### Part No:

CAS-ALPHASP220-20LTR  
CAS-ALPHASP320-20LTR

### Also Available:

Please check stock availability for additional pack sizes



CAS-ALPHASP220-208LTR  
CAS-ALPHASP320-208LTR

Available in the following viscosity grades:  
68, 100, 150,  
460, 680.

## Synthetic Gear Oil

Castrol Alphasyn PG synthetic gear oils are based upon highly stable polyglycol base fluids, the properties of which are further enhanced by a complex additive system giving improvements in load carrying capacity, oxidation and thermal stability, allowing operation at high loads and continuous high temperatures.

### Characteristics

<b>Appearance:</b>	Yellow
<b>Extreme Pressure:</b>	Yes
<b>Oil:</b>	Polyalkyleneglycol (PAG)

### Technical Specification

<b>ISO VG:</b>	320
<b>Temperature:</b>	Up to 140°C
<b>Base Oil Viscosity:</b>	320mm <sup>2</sup> /s
<b>DIN Standard:</b>	DIN 51 502: CLP PG 320



**Part No:**

**CAS-ALPHASYNPG320-20KG**

Available in the following  
viscosity grades:  
150, 220, 460.

## Food Grade Gear Oil



OKS 3720 is a high performance food industry gear oil formulated using synthetic hydrocarbon lubricating oil fortified with extreme pressure additives to impart anti-wear and extreme pressure properties.

These gear lubricants are recommended for the lubrication of industrial gearboxes.

Certified by NSF as H1 hence suitable for incidental contact with food and beverage products.

### Characteristics

<b>Appearance:</b>	Colourless to yellow
<b>Extreme Pressure:</b>	Yes
<b>Oil:</b>	Polyalphaolefin (PAO)

### Technical Specification

<b>ISO VG:</b>	220
<b>Temperature:</b>	-30°C to +120°C
<b>NSF Approval:</b>	H1 Reg. No. 135752
<b>Base Oil Viscosity:</b>	270 mm <sup>2</sup> /s
<b>DIN Standard:</b>	DIN 51 502: CLP HC 220

### Part No:

OKS3720-5LTR  
OKS3720-25LTR

### Also Available:

Please check stock availability for additional pack sizes



OKS3720-200LTR

Available in the following viscosity grades:  
320 - OKS3725  
460 - OKS3730  
680 - OKS3740

## Chain Spray

OKS 671 is a high performance spray applied lubricating oil formulated with high quality solvent refined mineral oils fortified with extreme pressure and solid lubricant additives.

Especially suited for the long term lubrication of chains, guideways, pins, pivots and hinges.



### Characteristics

Appearance:	Light-coloured
Oil:	Mineral
Additive Package:	Mo <sub>x</sub> -Active*
Solid Lubricant:	White solid lubricants

\*OKS developed molybdenum based extreme pressure additive

### Technical Specification

ISO VG:	46
Temperature:	-30°C to +80°C
Base Oil Viscosity:	42 mm <sup>2</sup> /s
DIN Standard:	DIN 51 502: CL F 46

Part No:

OKS671-400ML

### Also Available:

Please check stock availability for additional pack sizes



OKS670-5LTR



OKS670-25LTR



OKS670-200LTR

## Food Grade Chain Spray



OKS 3751 is a spray applied high performance chain oil for the food industry, it is formulated using synthetic hydrocarbon lubricating oil fortified with selected additives and PTFE. The additive package enables OKS 3751 to provide excellent high temperature and oxidation stability, excellent wear protection and is very adherent.

Certified by NSF as H1 hence suitable for incidental contact with food and beverage products.

### Characteristics

Appearance:	Whitish
Oil:	Polyalphaolefin (PAO)
Solid Lubricant:	PTFE

### Technical Specification

ISO VG:	100
Temperature:	35°C to +135°C
NSF Approval:	H1 Reg. No. 124801
Base Oil Viscosity:	110 mm <sup>2</sup> /s
DIN Standard:	DIN 51 502: CLF HC 100

Part No:

OKS3751-400ML

### Also Available:

Please check stock availability for additional pack sizes



OKS3750-5LTR



## High Temperature Chain Oil

Synthetic high-temperature oil. Good wear protective through EP additives. Excellent oxidation protection, therefore resistant to aging. Low tendency to drip at high temperatures. Minimal evaporation losses. Residue-free evaporation. Good water and steam resistance.

### Characteristics

Appearance:	Yellow
Extreme Pressure:	Yes
Oil:	Ester

### Technical Specification

ISO VG:	320
Temperature:	-10°C to +250°C
Base Oil Viscosity:	270
DIN Standard:	DIN 51 502: CLP E 320



Part No:

**OKS352-5LTR**

### Also Available:

Please check stock availability for additional pack sizes



OKS3521-400ML



OKS352-1LTR



OKS352-25LTR



OKS352-200LTR

# HYDRAULIC OIL

## Hydraulic Oil



RX EP 32 is a hydraulic oil formulated with a mineral oil lubricating system fortified with additives to provide enhanced wear, anti-corrosion and thermal degradation properties.

It is primarily intended for use in hydraulic systems where the requirement is for a hydraulic oil meeting the specification of DIN 51502:HLP 32.

It may also be used as a light lubricating oil for many other applications.

### Characteristics

<b>Appearance:</b>	Light yellow
<b>Oil:</b>	Mineral

### Technical Specification

<b>ISO VG:</b>	32
<b>Temperature:</b>	-10°C to +100°C
<b>Base Oil Viscosity:</b>	32 mm <sup>2</sup> /s
<b>DIN Standard:</b>	DIN 51 502: HLP32

### Part No:

**EP32-25LTR-RX**

### Also Available:

Please check stock availability for additional pack sizes



EP32-1LTR-RX



EP32-5LTR-RX



EP32-205LTR-RX

Available in the following viscosity grades:  
22, 32, 46, 68

## HYDRAULIC OIL

## Premium Hydraulic Oil

Castrol Hyspin AWS 32 & 46 premium hydraulic oils are formulated utilising turbine quality solvent refined mineral oils, fortified by an additive package to provide enhanced anti-wear, rust and oxidation properties.

Meets the requirements of the majority of hydraulic system original equipment manufacturers.

## Characteristics

<b>Appearance:</b>	Colourless to yellow
<b>Oil:</b>	Mineral

## Technical Specification

	Hyspin AWS 32	Hyspin AWS 46
<b>ISO VG:</b>	32	46
<b>Temperature:</b>	-10°C to +105°C	-10°C to +105°C
<b>Base Oil Viscosity:</b>	32 mm <sup>2</sup> /s	46 mm <sup>2</sup> /s
<b>DIN Standard:</b>	DIN 51 502: HLP32	DIN 51 502: HLP46



## Part No:

CAS-HYSPINAWS32-20LTR  
CAS-HYSPINAWS46-20LTR

## Also Available:

Please check stock availability for additional pack sizes



CAS-HYSPINAWS32-5LTR  
CAS-HYSPINAWS46-5LTR



CAS-HYSPINAWS32-208LTR  
CAS-HYSPINAWS46-208LTR

Available in the following viscosity grades:  
10, 15, 22, 68,  
100, 180.

# HYDRAULIC OIL

## Food Grade Hydraulic Oil



OKS 3770 is a high performance hydraulic oil for the food industry formulated using synthetic hydrocarbon lubricating oil fortified with anti-wear additives to impart anti-wear properties. Meets the specifications of the majority of the leading hydraulic system manufacturers.

Certified by NSF as H1 hence suitable for incidental contact with food and beverage products.

### Characteristics

Appearance:	Colourless
Oil:	Polyalphaolefin (PAO)

### Technical Specification

ISO VG:	46
Temperature:	-40°C to +135°C
NSF Approval:	H1 Reg. No. 129962
Base Oil Viscosity:	50 mm <sup>2</sup> /s
DIN Standard:	DIN 51 502: HLP HC 46

### Part No:

OKS3770-5LTR  
OKS3770-25LTR

### Also Available:

Please check stock availability for additional pack sizes



OKS3770-200LTR

Available in the following viscosity grades:  
32 - OKS3775  
68 - OKS3780

## COMPRESSOR OIL

## Compressor Oil

Castrol Aircol PD 100 is a high quality air compressor lubricating oil formulated from high quality solvent refined mineral oils and fortified with additives to impart increased resistance to thermal decomposition and component wear.

### Characteristics

<b>Appearance:</b>	Light yellow
<b>Oil:</b>	Mineral

### Technical Specification

<b>ISO VG:</b>	100
<b>Temperature:</b>	0°C to +110°C
<b>Base Oil Viscosity:</b>	100 mm <sup>2</sup> /s
<b>DIN Standard:</b>	DIN 51 506: VD-L



**Part No:**

**CAS-AIRCOLPD100-20LTR**

Available in the following  
viscosity grades:  
32, 46, 68  
150.

## Silicone Spray (also for mould release)



A colourless silicone spray, chemically neutral, solvent free and also displaces water. An ideal fitting aid for rubber profiles, impregnation and coating of plastic surfaces and textiles. Lubricant for use in processing plastics.

Certified by NSF as H1 hence suitable for incidental contact with food and beverage products.

### Characteristics

Appearance:	Light-coloured
Oil:	Silicone

### Technical Specification

Temperature:	-50°C to +200°C
NSF Approval:	H1 Reg. No. 129481
Description:	Chemically neutral, solvent free

Part No:

**OKS1361-400ML**



### Also Available: RX Silicone Spray

Using a formulation based on high-grade silicone oil, the RX® Silicone Spray is not only an excellent plastic & rubber release agent, it can be also be used to lower friction and reduce wear on a multitude of mechanical parts including linear guide rails.

Part No: RX-SILICONESPRAY-400ML

### Also Available:

Please check stock availability for additional pack sizes



OKS1360-1LTR



OKS1360-5LTR



OKS1360-25LTR



## PTFE Dry Film Lubricant

OKS 571 gives optimal dry lubrication of sliding surfaces of different materials at low pressures, low speeds and in dusty environments.

A colourless, no-soiling, sliding and parting film which prevents fretting and dries at room temperature.



### Characteristics

Appearance:	Light-coloured
Oil:	Solvent blend
Solid Lubricant:	PTFE

### Technical Specification

Temperature:	-180°C to > +260°C
Press Fit:	$\mu = 0.07$

Part No:

OKS571-400ML

### Also Available:

Please check stock availability for additional pack sizes



OKS570-500ML



OKS570-5LTR



OKS570-25LTR

# AUTOMATIC LUBRICATORS

## Single-point automatic lubricator



Simalube is a gas powered single point automatic lubricator filled with 30, 60, 125 or 250 ml of grease or oil. The patented hydrogen producing dry cell drives a piston to dispense lubricant at a consistent rate of between 1 and 12 months, which is adjustable in operation. Gas production is initiated by turning the adjustment disk on the top with a hex key.

### Features / characteristics

- 1 to 12 month dispense time
- Infinitely adjustable during operation
- Patented gas producing dry cell technology means no liquid or dangerous chemicals, no toxic waste
- ATEX approval to Zone 2
- Works in any orientation even upside down
- Grease or oil filled (oil filled units have a non-return valve)

Suitable for the lubrication of rotary bearings, linear bearings, chain, open gears, sprockets etc.



Part No.	Description	Size	Temp range	Base oil	Thickener/ Soap	DIN 51502
<b>SIMASL24-125</b>	<b>Multi purpose grease with EP, NLGI 2</b>	125	-30°C to +140°C	Mineral oil	Li/Comp.	KP2N-30
<b>SIMASL10-125</b>	<b>Food industry grease, NSF H1 approved, NLGI 2</b> 	125	-30°C to +140°C	Synthetic	Al/Comp.	KPHC2N-30
<b>SIMASL01-125</b>	<b>Water resistant grease, NLGI 2</b>	125	-30°C to +120°C	Mineral oil	Li/Ca	KP2K-30
<b>SIMASL14-125</b>	<b>Chain oil</b>	125	-10°C to +90°C	Mineral oil		CGLP68
<b>SIMASL15-125</b>	<b>High temperature chain oil</b>	125	-30°C to +250°C	Synthetic		CGLPE220-320
<b>SIMASL18-125</b>	<b>Food industry oil, NSF H1 approved</b> 	125	-15°C to +150°C	Synthetic		CLPHC220

For other sizes change suffix 125 to relevant size. i.e. SIMASL10-125 becomes SIMASL10-60

# AUTOMATIC LUBRICATORS

## Technical Specification

<b>Product:</b>	Automatic grease and oil lubricator
<b>Power Generation:</b>	Hydrogen gas producing dry cells
<b>Working Pressure:</b>	Max. 5 bar
<b>Adjustment:</b>	Stepless 1-12 months
<b>Dispensing Quantity:</b>	0.08 - 8.3 ml/day
<b>Operating Temperature:</b>	-20°C to + 55°C (unit)*
<b>Usage:</b>	The lubricator can be installed in any position, even underwater. Attention: do not expose to direct heat.

**Certifications / Approvals:**



II 1G Ex ia IIC T6  
II 1D Ex iaD 20T 80°C



I M1 Ex ia I

<b>Ingress Protection:</b>	IP68 (dustproof and waterproof) Water tight to a depth of 10m			
<b>Usage Period:</b>	Within 2 years of filling date			
<b>Mounting:</b>	Works in any orientation, even upside down			
<b>Sizes:</b>	30 ml	60 ml	125 ml	250 ml
<b>Weight Full:</b>	82 g	115 g	190 g	335 g
<b>Weight Empty:</b>	55 g	60 g	75 g	111 g
<b>Diameter:</b>	Ø 52mm	Ø52mm	Ø52mm	Ø52mm
<b>Height:</b>	43mm	62mm	100mm	193mm

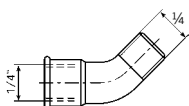
\* Lubricant fill has a separate operating temperature, please refer to table



## Accessories

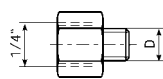
A wide range of accessories are available including; brushes for chain applications, brackets, protectors and remote connection hoses.

**Bent connection 45°**



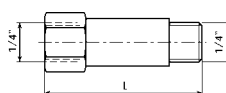
Part No: **SIMA1001**

**Reducing Nipple 1/4" x**



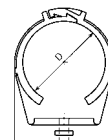
1/8" Part No: **SIMA1020**  
M6 Part No: **SIMA1022**

**Extension - 50mm**



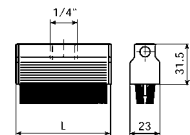
Part No: **SIMA1041**

**Clamp Ø 50mm**



Part No: **SIMA2010**

**Brush 40mm**



Part No: **SIMA2035**

## Multi-Purpose WD Spray



WD-40 is the original and most widely used water displacement and maintenance fluid.

Formulated from aliphatic hydrocarbons and carefully selected additives, it can be used as a light lubricant, a releasing agent, corrosion preventive cleaner and has many more applications within the workshop environment.

### Characteristics

Appearance:	Light amber
Oil:	Mineral
Additive Package:	Solvent, corrosion preventative

### Technical Specification

ISO VG:	3
Temperature:	-23° to +93°C
Base Oil Viscosity:	2.8 mm <sup>2</sup> /s
Salt Spray Test:	0-20% after 72 hours

### Part No:

WD40-400ML

### Also Available:

Please check stock availability for additional pack sizes



WD40-100ML WD40-600ML  
WD40-200ML



WD40-5LTR



WD40-25LTR



WD40-200LTR

## MAINTENANCE SPRAY

## Multi-Purpose Maintenance Spray with PTFE

Tri-flow is a high performance maintenance fluid formulated using mineral lubricating oil, PTFE solid lubricant and selected additives.

The addition of PTFE assists in providing a durable wear reducing lubricating film.



### Characteristics

Appearance:	Light amber
Oil:	Mineral
Additive Package:	Corrosion preventative
Solid Lubricant:	PTFE

### Technical Specification

ISO VG:	15
Temperature:	-53°C to + 246°C
Base Oil Viscosity:	14 mm <sup>2</sup> /s



### Also Available: RX Multi-oil with PTFE

Silicone free, RX® Multi-Purpose Spray can be used both inside and outdoors. Safe to use on plastics, rubbers and metals, RX® Multi-Purpose Spray can be used as an electrical contact cleaner.

Part No: RX-MULTIOIL+PTFE-400ML

Part No:

TRIFLOW-500ML

### Also Available:

Please check stock availability for additional pack sizes



TRIFLOW-200ML



TRIFLOW-4LTR

## High Performance Maintenance Spray



Very high performance maintenance fluid for dismantling, lubricating and protecting metal surfaces and machine elements.

Excellent cleaning action and temporary protection against corrosion, displaces moisture.

### Characteristics

Appearance:	Yellowish-transparent
Oil:	Mineral
Additive Package:	Solvent, corrosion preventative

### Technical Specification

ISO VG:	3
Temperature:	-30°C to +150°C
Base Oil Viscosity:	3 mm <sup>2</sup> /s
Salt Spray Test:	0% after 100 hours

### Part No:

**OKS641-400ML**

### Also Available:

Please check stock availability for additional pack sizes



OKS640-5LTR



OKS640-25LTR



OKS640-200LTR



## MAINTENANCE SPRAY

## Food Grade, Maintenance Spray

High performance maintenance and lubricating oil. Tasteless and odourless, extremely high creep capacity, enters small gaps, ideal for precise lubrication. Displaces water, dissolves dirt and rust.

Certified by NSF as H1 hence suitable for incidental contact with food and beverage products.

### Characteristics

Appearance:	Colourless
Oil:	White

### Technical Specification

ISO VG:	15
Temperature:	-10°C to +180°C
NSF Approval:	H1 Reg. No. 124384
Base Oil Viscosity:	14 mm <sup>2</sup> /s
DIN Standard:	DIN 51 502: CL 15



Part No:

OKS371-400ML

### Also Available:

Please check stock availability for additional pack sizes



OKS370-5LTR



OKS370-25LTR



OKS370-200LTR



## Rust Remover

OKS 611 is used for destruction-free dismantling of seized or rusted-in machine elements with excellent creep properties.

Displaces moisture along with good lubricating properties due to MoS<sub>2</sub> it is a universal rust dissolver for industry, workshop and hobby applications.

Spray on generously and allow to soak, repeat as necessary.

### Characteristics

Appearance:	Green-black
Extreme Pressure:	Yes
Oil:	Mineral
Additive Package:	Solvent
Solid Lubricants	MoS <sub>2</sub>

### Technical Specification

Temperature:	-30°C - +60°C / +150°C (after evaporation of the solvent)
Viscosity:	>3mm/s <sup>2</sup>

Part No:

OKS611-400ML

## WORK BOX ESSENTIALS

## Cutting Oil

A high performance cutting oil suitable for the majority of machining operations on all metals. Excellent metal compatibility and chlorine free.

The formulation is suitable for a wide range of cutting speeds and will produce both extended cutting tool life and optimum work-piece surface finish.

## Characteristics

Appearance:	Light coloured
Extreme Pressure:	Yes
Oil:	Mineral

## Technical Specification

ISO VG:	22
Viscosity:	20mm/s <sup>2</sup>



### Also Available: Ambersil Tufcut

Ambersil Tufcut spray is a specialist metal cutting lubricant based on a mixture of extreme pressure additives and antioxidants. It has been formulated as an instant, ready to use metal machining lubricant with high film-strength and resistance to extreme pressure.

Part No: AMB-TUF CUT-SPRAY-400ML

Part No:

**OKS391-400ML**

### Also Available:

Please check stock availability for additional pack sizes



OKS390-250ML



OKS390-5LTR



OKS390-25LTR



OKS390-200LTR

## Leak Detector Spray



Allows the location of leaks on pressurised lines, fittings and containers. For use on pneumatic, oxygen and gas systems as well as refrigeration systems. Formation of bubbles indicates loss of gas. For universal use, non-toxic.

When using on polyamide lines, wash off product with water afterwards.

### Characteristics

Appearance:	Colourless
Base Fluid:	Water
Additive Package:	Surfactant and corrosion protection

### Technical Specification

Temperature:	up to +80°C
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Part No:

**OKS2801-400ML**

### Also Available:

Please check stock availability for additional pack sizes



OKS2800-5LTR



OKS2800-25LTR

## Belt Dressing Spray

Increases belt tension force and prevents slip as well as protecting the belt against drying out and wearing giving increased service life. Prevents squeaking.

For universal use on all V-belts, round and flat belts. For optimum adhesion, clean belt mechanically and with OKS 2611 (see page 46). Spray belt evenly, allow to soak in for 30 minutes before operating, repeat as necessary.

### Characteristics

<b>Appearance:</b>	Yellowish
<b>Oil:</b>	Adhesive oil
<b>Additive Package:</b>	Solvent

### Technical Specification

<b>Temperature:</b>	up to +80°C
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**Part No:**

**OKS2901-400ML**

## Air Duster



Ambersil's Air Duster is a liquified gas which provides a dry, powerful blast for easy removal of dust and other loose contamination.

This product has been formulated without the use of any CFCs or HCFCs.

Non-flammable.

### Characteristics

**Appearance:** Gas at room temperature

### Technical Specification

**Pressure:** 6.8 bar (at 25°C)

**Discharge Rate:** 0.5g/sec

**Part No:**

**AMB-AIRDUSTER-400ML**

## WORKBOX ESSENTIALS

## Jointing Compound

Hylomar Jointing Compound is a blue non-setting sealant for the effective sealing of metal to metal and most plastic to plastic components.

It can withstand high temperatures and vibration often found in demanding jointing applications and is particularly effective for sealing flanges subjected to extreme vibration and distortion.

### Characteristics

<b>Appearance:</b>	Soft blue paste
<b>Base Fluid:</b>	Polyester urethane and solvent
<b>Solid Lubricant:</b>	Silica

### Technical Specification

<b>Temperature:</b>	-50°C to 250°C
<b>Pressure Resistance:</b>	35 bar (500psi)
<b>Thickness of Residue:</b>	0.03mm
<b>Surface Finish:*</b>	3.0 $\mu$ maximum
<b>Area Covered by 100g</b>	1.275m <sup>2</sup>

*\*Surface finish of material product is applied to, poorer surface finish may result in the residue being unable to seal the joint*



Part No:

ROC-HYLOMAR-100G

## Copper Anti-Seize Paste

For screws, bolts and sliding surfaces subjected to high temperatures, water or salt water. Prevents binding together, rusting and seizing during assembly.

Highly adhesive with excellent corrosion protection.



### Characteristics

<b>Appearance:</b>	Copper coloured
<b>Oil:</b>	Semi-synthetic
<b>Soap:</b>	Lithium
<b>Additive Package:</b>	Corrosion preventative
<b>Solid Lubricant:</b>	Copper powder

### Technical Specification

<b>Temperature:</b>	-30°C to +150°C / 1,100°C lubrication / separation
<b>Press Fit:</b>	$\mu = 0.15$
<b>Four Ball weld load:</b>	2,600 N
<b>Thread Friction:</b>	(M10/8.8): $\mu = 0.15$

**Part No:**

**OKS245-250G**

### Also Available:

Please check stock availability for additional pack sizes



OKS245-1KG



OKS245-5KG



OKS245-25KG



## Moly Spray (and Paste)

OKS 221 is a high quality assembly lubricant for press-on processes and used for run-in lubrication of highly loaded sliding surfaces.

Effective immediately through high MoS<sub>2</sub> content, rubbing in the paste not required.

### Characteristics

Appearance:	Black
Oil:	Synthetic
Additive Package:	Mo <sub>x</sub> -Active*
Solid Lubricant:	MoS <sub>2</sub> , other solid lubricants

\*OKS developed molybdenum based extreme pressure additive

### Technical Specification

Temperature:	-35°C to +450°C
Press Fit:	μ = 0.05
Four Ball Weld Load:	4,200N



Part No:

OKS221-400ML

### Also Available:

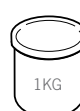
Please check stock availability for additional pack sizes



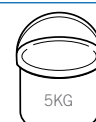
OKS220-40ML



OKS220-250G



OKS220-1KG



OKS220-5KG

## Food Grade Anti-Seize Paste

For screws, bolts and sliding surfaces that are subjected to high pressures, high temperatures at low speeds or oscillating movements. Prevents binding together and rusting. Metal-free, highly adhesive. A universal high-temperature assembly paste, also for use in food processing industry.

Certified by NSF as H1 hence suitable for incidental contact with food and beverage products.



### Characteristics

Appearance:	Light grey
Oil:	Polyglycol
Thickener:	Silicate
Solid Lubricant:	White solids

### Technical Specification

Temperature:	-30°C to +160°C / 1,200°C lubrication / separation
NSF Approval:	NSF H1 Reg. No. 135748
Press Fit:	$\mu = 0.12$
Thread Friction:	(M10/8.8): $\mu = 0.15$

Part No:

OKS252-250G

### Also Available:

Please check stock availability for additional pack sizes



OKS252-1KG



OKS252-5KG

## CORROSION PROTECTION

## Temporary Protective Film, Wax Based

A temporary wax-based corrosion protection film for storage and shipping of machine parts with bare metal surfaces.

Non-tacky transparent film, easy to remove but can be left on due to good compatibility with lubricants.

### Characteristics

Appearance:	Light-coloured
Base Fluid:	Solvent
Additive Package:	Corrosion preventative

### Technical Specification

Temperature:	-40°C to +70°C
Salt Spray Test:	1000 hours with 50 µm layer thickness



Part No:

OKS2101-400ML

### Also Available:

Please check stock availability for additional pack sizes



OKS2100-5LTR



OKS2100-25LTR



OKS2100-200LTR



## Zinc Galvanizing Spray, Permanent

Cathodic corrosion protection based on highly pure zinc powder for ferrous metals. For touching up galvanised surfaces, also suitable as adhesive primer for coating systems.

Fast-drying, commonly used in steel construction also works in air conditioning technology.

### Characteristics

Appearance:	Zinc grey
Base Fluid:	Solvent
Additive Package:	Synthetic resin mixture

### Technical Specification

Temperature:	up to +400°C
Salt Spray Test:	500 hours with 70 µm layer thickness

Part No:

OKS2511-400ML



### Also Available: RX Zinc Spray

With high zinc purity, RX® Zinc Spray provides protection from corrosion and can be used as a primer coat for bare metal surfaces. The cathode action of RX® Zinc Spray makes it extremely economic and effective whilst offering a good resistance against mechanical shocks, rubbing and erosion.

Part No: RX-ZINCSPRAY-400ML

## Universal Cleaner

RX® Degreaser is a high performance solvent degreaser for the removal of oil, grease and dirt. The perfect solution for the removal of old lubricant from mechanical parts.

Cleans and degreases leaving no residue. Quick drying.

### Characteristics

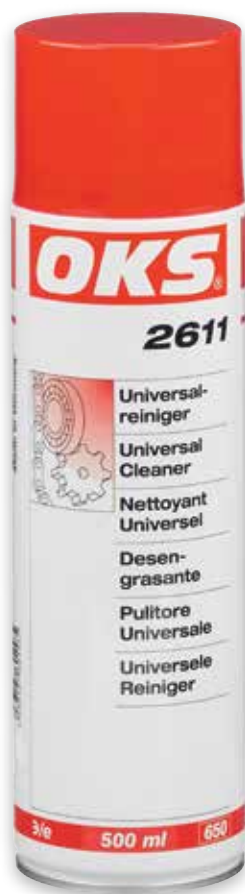
<b>Appearance:</b>	Colourless
<b>Base Fluid:</b>	Solvent



**Part No:**

**RX-DEGREASER-400ML**

## High Performance Universal Cleaner



A solvent degreaser for cleaning machine parts and surfaces with oily or greasy soiling. High cleaning power together with fast evaporation combine to provide residue free surfaces.

Short-term corrosion protection due to the incorporation of additives. Commonly used as a solvent cleaner for the removal of excess lubricant from lubrication points and excess adhesive from glueing points.

### Characteristics

Appearance:	Colourless
Base Fluid:	Solvent
Additive package:	Corrosion preventative

### Part No:

**OKS2611-500ML**

### Also Available:

Please check stock availability for additional pack sizes



OKS2610-5LTR



OKS2610-25LTR



OKS2610-200LTR

## Multi Foam Cleaner

OKS 2631 removes firmly adhering organic soiling such as nicotine, fat and silicone films and cleans metals, plastics, glass and rubber gently and without leaving residue.

Ideal for vertical surfaces and applied by spraying evenly from a distance of about 20 – 30 cm and wipe off with a clean cloth. In the case of special coating check for compatibility.

### Characteristics

Appearance:	Slightly blueish
Base Fluid:	Solvent
Additive Package:	Anionic surfactants



### Also Available: RX Foam Cleaner

Using active foam technology to aid the cleaning process, its non-drip properties means RX® Foam Cleaner is ideal even applied to vertical surfaces leaving no residue.

Part No: RX-FOAMCLEANER-500ML

Part No:

OKS2631-400ML

## Brake Cleaner



RX® Brake Cleaner is a powerful, fast drying cleaner for all brake and clutch parts.

Easy to apply, at any angle, RX® Brake Cleaner will remove excess brake fluid, oil and dirt to prevent squealing brakes and clutch slip or chatter.

Does not corrode metals.

### Characteristics

<b>Appearance:</b>	Colourless
<b>Base Fluid:</b>	Solvent

**Part No:**

**RX-BRAKECLEANER-500ML**



## Electrical Contact Cleaner

A fast evaporating solvent cleaner for the removal of soiling, such as oxide deposits and dust from electrical components that can cause creepage currents. Due to its fast evaporation it does not run and contains no chlorinated hydrocarbons.

Excellent for the cleaning of distribution boards, switches, relays, potentiometers, plug-in connections, sliding and screw contacts.

### Characteristics

<b>Appearance:</b>	Colourless
<b>Base Fluid:</b>	Solvent



**Part No:**

**OKS2621-400ML**

## Fast Drying Cleaner

A highly effective degreasing agent for all hydrocarbon soiling, including oil, grease, tar and bitumen. A fast and effective cleaning solvent it is an ideal replacement to Trichloroethane.



### Characteristics

Appearance:	Colourless
Base Fluid:	Solvent

### Part No:

**AMB-AMBERKLEFE10-400ML**

### Also Available:

Please check stock availability for additional pack sizes



AMB-AMBERKLEFE10-1LTR  
AMB-AMBERKLEFE10-5LTR



AMB-AMBERKLEFE10-25LTR



AMB-AMBERKLEFE10-200LTR

## Industrial Degreaser Food Safe

Industrial Degreaser FG is an innovative solvent blend that is excellent for use where rapid turnaround is necessary and low flash point solvents can be used.

Dissolves and removes greases, oils, lubricants, adhesives and contaminants from equipment, machinery, motors and metal parts.

### Characteristics

<b>Appearance:</b>	Colourless liquid, sweet odour
<b>Base Fluid:</b>	Solvent

### Technical Specification

<b>NSF Approval:</b>	Reg No. A8 No 140255 and K1 140250
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Part No:

AMB-INDDEGREASERFG-500ML

## Biodegradable Cleaner



Biodegradable aqueous cleaner for removing heavy oily, greasy and sooty soiling from the majority of surfaces.

Gentle to delicate surfaces, for universal use in industry, workshops and food processing technology.

Depending on the soil to be removed can be diluted with water thereby further enhancing its cost effectiveness.

### Characteristics

<b>Appearance:</b>	Red
<b>Base Fluid:</b>	Water
<b>Additive Package:</b>	Non-ionic and corrosion protection

### Technical Specification

<b>Biodegradability:</b>	>85% in 28 days
<b>Dilution Ratio:</b>	1:5 to a maximum of 1:40
<b>NSF Approval:</b>	NSF A1 Reg. No. 129003

**Part No:**

**OKS2650-500ML**

### Also Available:

Please check stock availability for additional pack sizes



OKS2650-5LTR



OKS2650-25LTR



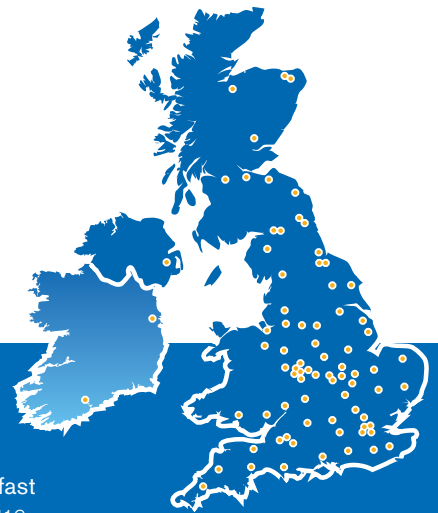
OKS2650-200LTR

<b>Additives</b>	A substance (either soluble or insoluble) added to produce or enhance certain desirable properties of the lubricant. Dry or solid lubricants may be added with the objective to maintain lubrication even when the primary lubricant (oil or grease) had displaced or evaporated. <i>See also Anti-foam additive, Anti-wear additive, EP additive, Inhibitor.</i>	<b>Dry film lubricant</b>	A dry lubricant coating applied either directly or suspended in a carrier. The carrier is not intended to have lubricating properties and is purely to facilitate application of the solid lubricant. <i>See also Solid lubricant.</i>																																						
<b>Animal oil</b>	Oil derived from animal material, such as lard oil or lanolin from sheeps wool.	<b>EP (Extreme Pressure) additive</b>	An additive designed to minimise the tendency of metal surfaces to weld and seize under conditions of extreme localised loads. <i>See also Additives.</i>																																						
<b>Anti-foam additive</b>	Chemical added to oils to reduce the foaming that results from aeration. <i>See also Additive.</i>	<b>Film thickness</b>	Recommended minimum thickness of coating to give reliable protection. <i>See also Corrosion Preventative.</i>																																						
<b>Anti-wear additive</b>	Chemical added to oils to reduce friction and excessive wear. Generally acts by reacting with metal surfaces to provide a protective layer. <i>See also Additive.</i>	<b>Food grade lubricants</b>	In most cases produced from raw materials approved by the Food and Drug Administration (FDA) commonly classified as NSF H1 or H2. <i>See also NSF and NSF Classification.</i>																																						
<b>Aqueous cleaner</b>	Water based cleaner possibly with active additives / detergents.	<b>Four-ball test</b>	Evaluates the load carrying performance of a lubricant via 2 tests.  <b>Test 1</b> A constant load is applied via a rotating ball to 3 static balls for a fixed period of time which are then inspected for the size of "wear scar".  <b>Test 2</b> The load is increased until the rotating ball seizes and welds to the other 3 generating the "weld point", which is the final load applied. <i>See also EP (Extreme Pressure) Additive.</i>																																						
<b>Base Fluid</b>	A continuous phase fluid type (doesn't alter chemically in operation), such as water or Solvent	<b>Graphite</b>	A common type of lubricant that consists of a form of carbon, which when finely pulverised has lubricating properties either by itself or as a load-carrying component suspended in conventional lubricants. <i>See also solid lubricants.</i>																																						
<b>Base Oil</b>	<i>Refer to Oil.</i>	<b>Grease</b>	A solid to semi-fluid lubricant consisting of a "thickener" dispersed within a lubricating base oil. The lubricating grease may be the product of a chemical reaction(s) as in soap based greases. Or the result of a more simple mixing process as with non-soap based greases. <i>See also NLGI Grade, Base Oil Viscosity and Thickener.</i>																																						
<b>Base oil viscosity</b>	Terminology used primarily to reference the viscosity of the lubricating oil component within a grease or paste. <i>See also Viscosity.</i>	<b>Inhibitor</b>	Controls certain undesirable phenomenon in lubricants or fuels. e.g. oxidation/rust inhibitor. <i>See also Additives.</i>																																						
<b>Biodegradability</b>	Chemical degradation of materials by bacteria or other biological means meaning the substance returns to more basic components.	<b>ISO</b>	International Organisation for Standardisation.																																						
<b>Breakaway torque</b>	Rotational force required to begin rotary motion associated with a screwed or threaded connection. <i>See Also White Paste, Press-Fit Test, Thread Friction Coefficient.</i>	<b>ISO VG grade</b>	A system of measuring and standardising viscosity grades for industrial lubricants as determined in ISO Standard 3448. There are 18 ISO VG grades, the higher the number, the more viscous the liquid. Note: As the temperature increases, the viscosity decreases and vice versa.  <table border="0"> <thead> <tr> <th>ISO VG Grade</th> <th>Viscosity at 40°C (measured in cSt or mm<sup>2</sup>/s)</th> </tr> </thead> <tbody> <tr><td>ISO VG 2</td><td>2.2</td></tr> <tr><td>ISO VG 3</td><td>3.2</td></tr> <tr><td>ISO VG 5</td><td>4.6</td></tr> <tr><td>ISO VG 7</td><td>6.8</td></tr> <tr><td>ISO VG 10</td><td>10</td></tr> <tr><td>ISO VG 15</td><td>15</td></tr> <tr><td>ISO VG 22</td><td>22</td></tr> <tr><td>ISO VG 32</td><td>32</td></tr> <tr><td>ISO VG 46</td><td>46</td></tr> <tr><td>ISO VG 68</td><td>68</td></tr> <tr><td>ISO VG 100</td><td>100</td></tr> <tr><td>ISO VG 150</td><td>150</td></tr> <tr><td>ISO VG 220</td><td>220</td></tr> <tr><td>ISO VG 320</td><td>320</td></tr> <tr><td>ISO VG 460</td><td>460</td></tr> <tr><td>ISO VG 680</td><td>680</td></tr> <tr><td>ISO VG 1000</td><td>1000</td></tr> <tr><td>ISO VG 1500</td><td>1500</td></tr> </tbody> </table>	ISO VG Grade	Viscosity at 40°C (measured in cSt or mm <sup>2</sup> /s)	ISO VG 2	2.2	ISO VG 3	3.2	ISO VG 5	4.6	ISO VG 7	6.8	ISO VG 10	10	ISO VG 15	15	ISO VG 22	22	ISO VG 32	32	ISO VG 46	46	ISO VG 68	68	ISO VG 100	100	ISO VG 150	150	ISO VG 220	220	ISO VG 320	320	ISO VG 460	460	ISO VG 680	680	ISO VG 1000	1000	ISO VG 1500	1500
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<b>Cleaners</b>	A material which is designed to remove soiling (dirt) from a substrate (surface).																																								
<b>Consistency</b>	The degree to which grease resists deformation under the application of a force, roughly equates to softness or hardness of the grease.																																								
<b>Copper paste</b>	Copper powder suspended in a lubricant. Prevents direct metal-to-metal contact and seizing of parts.																																								
<b>Corrosion preventative</b>	A substance, usually a coating designed to prevent a metallic surface from a corrosive reaction with the surrounding environment.																																								
<b>COSHH regulations</b>	Control of Substances Hazardous to Health - Legislation requiring employers to control (prevent or reduce workers exposure to) substances that are hazardous to health by:- risk assessment, training, planning for emergencies etc.																																								
<b>DIN Standard</b>	Deutsches Institut Für Normung, the German Institute for Standardisation.																																								

# GLOSSARY

<b>Lubricant</b>	A substance used to reduce friction and wear between two moving surfaces. A lubricant can be fluid, semi-fluid or solid and depending on specification can: Control friction, control wear, prevent corrosion, transfer heat (cool), seal and keep out contaminants, carry away contaminants, dampen shock, reduce noise levels, transmit power (i.e. hydraulics).	<b>NSF Classification</b>	“NSF Nonfood Compounds Registration Program - Re-introduction (1999) of the authorisation program administered by the U.S. Department of Agriculture (USDA). Products eligible for NSF Registration include all compounds used in and around food establishments (nonfood compounds/non ingredients or cooking oils), including lubricants and cleaners.																				
<b>Maximum and minimum temperature</b>	Total operating window of the lubricant. Consistently operating at the extremities can adversely affect the operating life. <i>See also Operating Temperature.</i>		Registered products carry an NSF Registration Mark on their product label. Commonly;																				
<b>Micro-welding</b>	When two metals of similar melting points rub together, hot spots on the two metals will melt together creating a temporary bond. This will then be pulled apart by the relative motion of the two surfaces causing material to break away resulting in surface damage.		<b>NSF A1</b> General cleaning agents for use on all surfaces (must be washed off, no incidental contact).																				
<b>Mineral Oil</b>	Petroleum based, produced by refining crude oil.		<b>NSF A8</b> Degreasers/carbon removers Degreasers for use on food cooking or smoking equipment, utensils, or other associated surfaces.																				
<b>Molybdenum disulphide</b>  (MoS <sub>2</sub> )	A black powder that serves as a dry-film lubricant in certain applications. It is also used as a component of pastes to prevent scoring when assembling pre-fit parts, and as an additive to provide residual lubricating properties to oils and greases. Molybdenum disulphide is often called moly or moly-di-sulphide.		<b>NSF H1</b> Lubricants which may be used when contact with food cannot be technically excluded (possibility of incidental contact).																				
<b>MSDS</b>	Material Safety Data Sheet. A document describing the properties and uses of a chemical product or formulation, including its identity, chemical and physical properties, health hazard information, precautions for use, information on safe handling and disposal, appearance, transport and storage considerations.		<b>NSF H2</b> Applies to lubricants that may be used when contact with food is technically excluded (no incidental contact).																				
<b>NLGI Grade</b>	System for measuring and standardising grease consistency administered by the National Lubricating Grease Institute (NLGI). Different grades have different common application areas. Bearings, for example, would almost always be lubricated by grease with an NLGI Grade of between 1 and 3.		<b>NSF K1</b> Cleaning agents for use as a solvent cleaner in non-food processing areas.																				
	<table border="0"> <thead> <tr> <th>NLGI Grade</th> <th>State at room temp</th> </tr> </thead> <tbody> <tr> <td>000</td> <td>Semi fluid</td> </tr> <tr> <td>00</td> <td>Semi fluid</td> </tr> <tr> <td>0</td> <td>Very Soft</td> </tr> <tr> <td>1</td> <td>Soft</td> </tr> <tr> <td>2</td> <td>Medium</td> </tr> <tr> <td>3</td> <td>Firm</td> </tr> <tr> <td>4</td> <td>Very firm</td> </tr> <tr> <td>5</td> <td>Hard</td> </tr> <tr> <td>6</td> <td>Solid</td> </tr> </tbody> </table>	NLGI Grade	State at room temp	000	Semi fluid	00	Semi fluid	0	Very Soft	1	Soft	2	Medium	3	Firm	4	Very firm	5	Hard	6	Solid	<b>Oil</b>	A chemical substance that is a viscous liquid at the desired operating temperature and will not form a solution with water, but is soluble in alcohols or ethers. May be animal, vegetable, petrochemical or synthetic in origin. For industrial applications oils are primarily petrochemical or synthetic in origin (base oil) and may also contain selected additives. <i>See also Mineral Oil, Synthetic Oil, Vegetable Oil, Animal Oil.</i>
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		<b>Operating Temperature</b>	Range of the optimal performance of a lubricant. Operating within this window will cause no accelerated degradation to the lubricant. <i>See also Maximum and Minimum Temperature.</i>  Oils, greases or pastes with a substantial dry or solid lubricant component may have two quoted operating temperatures, one based on the petrochemical components of the lubricant and one (higher) for the dry or solid constituent once the rest of the lubricant has evaporated or is spent.																				
<b>Non-soap</b>	Non-soap thickeners include; Bentonite, polycarbonate. <i>Also see Thickeners, Soaps.</i>	<b>Paste</b>	A mixture of lubricating components usually a solid lubricant dispersed in a liquid. Similar in appearance to a grease but can be formed by a simple mixing process. Commonly used on sliding surfaces subjected to high pressures at low speeds such as tightening bolts, to aid subsequent disassembly. <i>See also White Paste, Press-Fit Test, Thread Friction Coefficient, Breakaway Torque.</i>																				
<b>NSF</b>	NSF International, formerly National Sanitation Foundation. An independent not-for-profit organisation providing (amongst others) standards development, product certification and auditing in food, water, health and consumer products.	<b>Permanent protective film</b>	Intended to remain in place for all or some of the operating life of a product such as paint.																				
		<b>Polytetrafluoroethylene (PTFE)</b>	A synthetic (man-made) thermoplastic polymer, which is solid at room temperature. Has one of the lowest coefficients of friction of any known solid material. <i>See also solid lubricant.</i>																				

<b>Press-fit test</b>	Indicates the lubricating performance of pastes at a very high pressure and low sliding speeds.	<b>Viscosity</b>	Measurement of the resistance to flow of a fluid. In simplified terms, viscosity is essentially thickness, water is low viscosity, honey is high viscosity (more viscous). <i>See also ISO VG Grade.</i>
<b>Pressure Resistance</b>	Ability of the sealed joint to resist a displacing load.	<b>White paste</b>	Similar to copper paste but metal-free, uses white solids to prevent metal-to-metal contact. <i>See also white solids.</i>
<b>Properties of oil</b>	<i>Refer to; Viscosity, ISO VG Grade.</i>	<b>White solids</b>	Term used to refer to ceramic solid lubricants.
<b>Salt spray test</b>	A uniform test method for evaluating the corrosion resistance of coated metallic samples.		
<b>Semi-synthetic Oil</b>	An oil blend of mineral oil with typically no more than 30% synthetic oil designed to have many of the benefits of synthetic oil without the cost of synthetic oil. <i>See also Mineral Oil, Synthetic Oil</i>		
<b>Soaps</b>	Common soap thickeners, include; Calcium, lithium, aluminium-complex, calcium-complex, lithium-complex. <i>See also Thickeners and Non-Soap.</i>		
<b>Solid lubricant</b>	A solid substance with a low frictional coefficient intended to act as a lubricant and separate moving parts. Can be applied directly or in a carrier i.e. sacrificial oil (where the solid lubricant operates when the oil has evaporated) or can be an additive to give additional lubrication or load carrying capacity to an oil or grease etc. <i>See also Graphite, Molybdenum disulphide (MoS<sub>2</sub>), Polytetrafluoroethylene (PTFE).</i>		
<b>Solvent</b>	A liquid capable of absorbing or dissolving another substance, (such as white spirit will dissolve oily deposits).		
<b>Surfactant</b>	A substance dissolved in a liquid to reduce surface tension between two liquids or a liquid and a solid. Helps free and remove dirt particles at the mating surface and then holds the dirt in suspension allowing removal. Common types include Anionic & Cationic		
<b>Synthetic Oil</b>	“Man made” by chemical reaction rather than refining from crude oil. e.g Polyalphaolefin (PAO), silicone oil, Polyethylene glycol (PEG), Ester.		
<b>Temporary protective film</b>	Used during production, storage and shipping. Intended to be easily removed, often by solvents.		
<b>Thickener</b>	A medium for holding the lubricating base oil. In simple terms, acts as a sponge to hold and then release lubricating oil. <i>See also Soaps and Non-Soap for common types of thickeners.</i>		
<b>Thickness of Residue</b>	Thickness of the coating between joined components after setting		
<b>Thread friction coefficient</b>	Indicates the lubricating performance of pastes when assembling or disassembling screw threads. <i>See Also White Paste, Press-Fit Test, Breakaway Torque.</i>		
<b>Torque</b>	A turning or twisting force.		
<b>Vegetable oil</b>	Oil derived from plant material, such as castor oil or palm oil.		



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