



PRODUCT
CATALOGUE
**INDUSTRIAL
MAINTENANCE**

The Professionals' Lubricants

Olipes

WELCOME



This catalogue is designed especially for you, because at Olipes, we always put the needs of our customers first.

With this purpose, we offer you our wide range of high-performance lubricants for professionals. Products of the highest quality and with the highest performance, always at the forefront of our sector.

We aspire to be your technological partner. We want stable and long-lasting relationships. That is why at Olipes we offer not only products of proven quality, but also a customer care service supported by a highly qualified technical team that ranges from manufacturing and distribution to comprehensive advice.

Efficiency, innovation and sustainability form part of our essence, and with this idea we have created this catalogue. We hope that it meets your expectations.

David Oliver / CEO of Olipes

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CAPTION



Multi-Purpose



Extreme Pressure/
Vibrations



Water
repellent



High
Revolutions



High
Temperatures



Low
Temperatures



Heavy Loads



Environmentally
Friendly

OUR QUALITY PROMISE

At Olipes, we are committed to researching and developing new more advanced, efficient and greener products.

Products of the highest quality adapted to the needs of each vehicle, machine and equipment in order to prolong the life of engines, transmissions, gearboxes, clutches, filters...

A comprehensive range of products and services for professionals with maximum innovation and efficiency, with cutting edge technology and top-quality raw materials.

- Certificates of biodegradability.
- Accredited by ENAC in accordance with the ISO 9001 quality and ISO 14001 environmental standards.
- API Certificate accredited by EOLCS (Engine Oil Licensing and Certification System).
- NSF International certification.
- Certified by Chamber Trust.
- Good environmental practices.
- INTA certification.
- OEMs Approvals.

SERVICE

In-person, telephone and 24/7 online technical and after-sales support in 22 languages.

- Sample analysis service.
- Advice and follow-up of proactive maintenance plans.

At Olipes, we guarantee total quality in 100% of our products.

SOME GREAT REASONS FOR CHOOSING OLIPES

KNOWLEDGE

- Over 25 years of experience in manufacturing and distributing lubricants.
- Over 50 professionals, experts in lubrication.
- A portfolio with over 4,700 formulations with exclusive technology.
- Active in 75 industrial sectors.

LOGISTICS CAPACITY

- Great responsiveness. What you need, when and where you need it in record time.
- 50,000 m³ destined to packaged raw materials.
- 13,000 m² of industrial facilities.
- 18,000 m³ of robotic logistics warehouse.

TECHNICAL GUARANTEE

- Continuous optimisation of formulations.
- Own laboratory.

CERTIFIED COMPANY



ISO 9001:2015



ISO 14001:2015



License # 0894



Chamber Trust

APPROVALS FROM MANUFACTURERS



ZF TE-ML 02L & 16K approvals



Volvo VDS-3 approval



MB 229.51 & 228.51 approvals



VW Standard 504 00 & 507 00

Integrated quality and environment system

In all our processes and in all stages of the product until it reaches the market:

- Product design
- Receipt of raw materials
- Manufacturing
- Packaging
- Transport

National and international quality and environmental certifications

Total quality guarantee in 100 % of our products.

Cutting edge technology

We are committed to researching and developing new more advanced, efficient and greener products.

Tested at international laboratories and at our own laboratory

Selection of raw materials from top level suppliers

Only with the best raw materials you can obtain the best lubricants.



YOUR TRUSTED PARTNER

Our goal is to provide you with constant support in your professional work, we want solid long-term relationships based on trust.

Comprehensive advice on the use of lubricants

Closeness, commitment and constant support, we seek to have a professional relationship with technological partners.

We are engineers, we are researchers

With us, you will always have a committed, flexible, motivated, constantly trained and highly qualified team to be at your service and at the service of your customers permanently.

A highly qualified team that offers the highest quality, with state-of-the-art products and services.

OLIPES PRODUCTS FOR THE CARE OF INDUSTRIAL MACHINERY

OLIPES puts at your disposal all the necessary lubricants for the care of your machinery.

Our products guarantee maximum reliability in the most severe conditions.

Our Technical Assistance Service (SAT) will advise you at all times, on the correct choice of the most suitable lubricant for your vehicle or machinery.

With OLIPES lubricants, your engines and equipment will work with the greatest efficiency and maximum performance, maintaining the manufacturer's warranty (OEM).

Technology, Reliability and Quality:

- We manufacture products that fully exploit the advantages provided to us by technology: more advanced, greener, more efficient.
- We are committed to top quality raw materials and national and international leading brand technology partners for each and every one of our products.
- We research at our own laboratory to obtain products with the maximum quality guarantee and the highest performance, tested under harsh and intense working conditions.



TECHNOLOGY

Innovation is in our DNA.



RELIABILITY

Top quality raw materials and leading brand technology partners.



QUALITY

Maximum quality guarantee and the highest performance.

OLIPES PROACTIVE MAINTENANCE PLAN

CONDITION TO BE ANALYZED	TESTS	CHECKS		
			GEARS	HYDRULICS
Wear level on machinery	ICP, Plasma (ASTM D 5185), PQ Index, Wear Index (PE-5024-AI)	Wear particles (ppm): Al, Cu, Cr, Sn, Fe, Pb, etc. Bigger ferrous wear particles.	Contents outside of the indicated limits: wear on gears or bearings by contamination, overload, misalignments, etc. Foreseeable breakdowns.	A high content indicates: wear on pumps, valves, and other components by contamination, high pressure changes in the bearings, etc. Associated symptoms: loss of yield.
Lubricant contamination level	ICP (ASTM D 5185), FTIR, KF, Crackle Test	Determination of contamination by presence of water-Glycol, concentration and nature thereof.	Contamination by freshwater/seawater by condensation with a refrigerant. Risk of premature corrosion and wear on bearings and gears.	Contamination by freshwater/seawater by condensation with a refrigerant. Risk of premature corrosion and wear on pumps.
Physicochemical characteristics of lubricant	TAN, Acid Number (ASTM D 664), IR (PE-5008-AI)	Level of oil oxidation and estimation of its service life (additive reserve).	A high level of oxidation could cause acidic corrosion.	A high level of oxidation could cause acidic corrosion.
	VISCOSITY (ASTM D 445 - ASTM D 2270)	Viscosity variation compared to original oil.	Possible causes: thickening of oil by oxidation, erroneous replacements.	Possible causes: thickening of oil by oxidation, erroneous replacements.
	INSOLUBLES	Dirt level of oil (sewage).	Possible causes: oxidation of oil, contamination by solids.	Possible causes: oxidation of oil, contamination by solids.
Additives remaining	ICP (ASTM D 5185), Metal additives (P, Zn, Ca, Mg, Li, S)	Remaining life of oil by concentration of its additives: S, Ca, P, etc.	Reserve of extreme pressure (EP) additives.	Reserve of antiwear (AW) additive.

Sampling frequency recommended for auxiliary equipment:

Hydraulic systems, reducers, compressors, and thermal circuits: 6 months.

OLIPES will help you implementing a Proactive Maintenance Plan and establishing Absolute Alarms and Necessary Statistics. To do this it relies on the experience of its highly qualified technical staff, on accumulated statistics and on the support of the main lubrication analysis laboratories with whom it collaborates on a global level.

For the Program to be successful, proper selection of the systems or components to be monitored is essential, as is correct establishment of limits and clean-up goals.

ELECTRIC MOTORS

The main areas to lubricate in an electric motor are the drive shaft support bearings, which usually handle low to medium loads and rotate at medium to high speeds. For these, we recommend greases with strong anti-wear properties, high resistance to oil separation, and an appropriate speed factor.

RECOMMENDATIONS:

- Avoid contact between grease and motor windings.
- Motors with sealed bearings typically use long-lasting synthetic greases and don't require regreasing.

SELECTION FACTORS:

- Type of bearing
- Bearing Size
- Rotation speed (RPM)
- Load to be supported
- Operating temperature
- Operational Environment
- Low-temperature torque
- Shock Loading and vibrations

GREASING QUANTITY:

- For bearings operating below 50 % of their speed limit: fill 1/2 to 2/3 of the free space.
- For bearings above 50 %: fill 1/3 to 1/2.

Use this formula for precise measurement:

$$\text{Grease (g)} = \text{outer diameter (mm)} \times \text{width (mm)} \times 0.005$$

**BEARING BRACKET:**

- Acts as a grease reservoir.
- Fill 30 % to 50 % of the tank; adjust based on speed (30 % for high speeds, 50 %-75 % for low speeds).

RE-GREASING INTERVAL:

- For small and medium motors running continuously: once a year.
- For each 10°C increase above 60°C, halve the relubrication period.

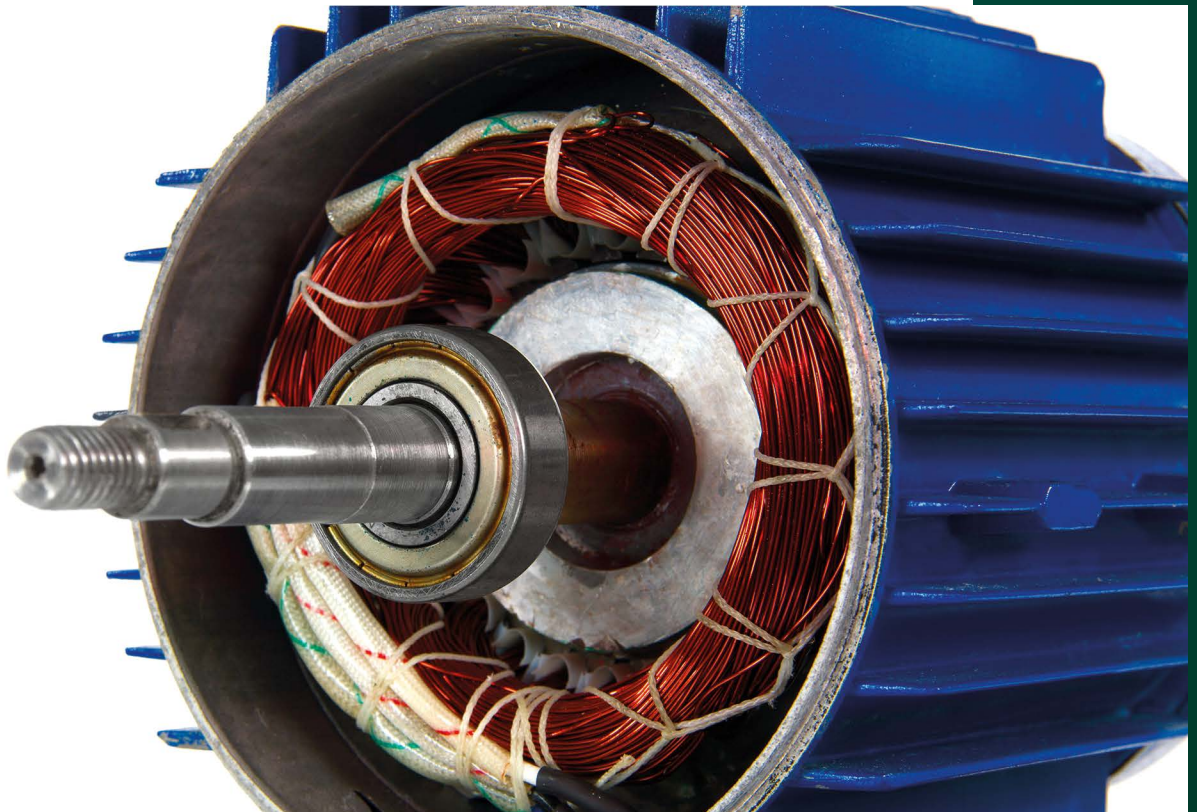
RE-GREASING FREQUENCY:

Use this formula to determine ideal relubrication time:

$$\text{Period (hours)} = \left[\frac{14,000,000}{(\text{shaft rpm})(D_i \text{ in mm})^{1/2}} \right] - (4 \times D_i \text{ in mm}) \times F_R \times F_T \times F_C$$

CORRECTION FACTORS:

- **F_R (Bearing type):**
1.0 for swing/thrust, 5.0 for roller, 10.0 for ball bearings.
- **F_T (Temperature):**
1.0 for <70°C, divide by 2 for every 10°C above.
- **F_C (Contamination):**
0.1 to 1.0 based on contamination level (1.0 in normal conditions).



LUBRICATING WITH OIL

FORCED CIRCULATION MOTOR BUSHINGS



SUITABLE FOR EXTREME HIGH SPEEDS

MAXIFLUID VG

VISCOSITIES ISO 2 TO ISO 10

Range of high fluidity and low viscosity lubricating oils of superior quality, with anti-wear (AW) additives, specially formulated to work in very high speed and high precision systems.

SPECIFICATIONS:
AFNOR NF E 48-603 HM
DIN 51524 Part 2 HLP
ISO 6743/4 HM, 11158 (HM)



PACKAGING:
20 L



MULTIFUNCTIONAL FLUID

MAXIFLUID HLP

VISCOSITIES ISO 32* TO ISO 68

Range of high quality mineral anti-wear (AW) hydraulic oils, formulated with highly refined paraffinic bases and latest generation additives.

SPECIFICATIONS:
AFNOR NF E 48-603 HM
DENISON HF-0, HF-1, HF-2
DIN 51524/2 HLP
ISO 6743/4 (HM), ISO 11158 (HM)
SEB 181222
*ISO 22 available on demand



PACKAGING:
5, 20, 200 and
1000 L

LUBRICATING WITH GREASES

HIGH TORQUE AND/OR HIGH-POWERED MOTORS



LONG-LIFE
MULTIFUNCTIONAL

MAXIGRAS COMPLEX LI-EP/2

Lithium complex extreme pressure grease with high-speed factor, especially for the lubrication of engines and large engines of medium and high revolutions. It reduces vibrations and guarantees perfect lubrication without the risk of contaminating the inductor circuit or the armature, thanks to its corrosion passivating additives.

SPECIFICATIONS:
NLGI classification 2/3
DIN 51502 KP2-30 / KP3P-30
ISO 6743/9 L-XCEHB-2/3

Working temperature from -30 °C to +160 °C
Speed factor: 350.000 mm/min.



PACKAGING:
400 g, 1 kg, 5, 20,
50 and 200 L



**LONG-LIFE AND
LOW NOISE PROPERTIES**

MAXIGRAS PU 2085 SHC/2.5

Synthetic, long-life polyurea grease for high-temperature, high-speed bearings. Ideal for noise-free applications and lifetime lubrication of sealed bearings due to its antioxidant properties. Do not mix with other greases. For assistance, contact Olipes SAT.

SPECIFICATIONS:

NLGI classification 2/3

DIN 51502 KPHC2-30 / KPHC3P-30

ISO 6743/9 L-XCFHB-2/3

Working temperature from -30 °C to +160 °C

Speed factor: 400.000 mm/min.



PACKAGING:
400 g, 5, 20, 50
and 200 L



LOW TORQUE ENGINES



**LONG-LIFE GREASE FOR HIGH SPEEDS
AND LOW TORQUE**

MAXIGRAS COMPLEX SP 46

Synthetic lithium complex grease with EP additives, designed for high-speed bearings. It provides easy start-up at low temperatures, excellent thermal stability, and oxidation resistance, extending re-greasing intervals or suitable for lifetime lubrication.

SPECIFICATIONS:

NLGI classification 2

DIN 51502 KPHC2K-50

ISO 6743/9 L-XECEB-2

Working temperature from -50 °C to +120 °C (peaks up to +140 °C)

Speed factor: 1.000.000 mm/min.



PACKAGING:
5, 20 and 50 L



MOTORS IN GENERAL



**MULTIFUNCTIONAL GREASE FOR
STANDARD OPERATING CONDITIONS**

MAXIGRAS C45 LI-EP/2

Multifunctional lithium grease with EP additives, suitable for motor bearings operating under standard conditions, without risk of contaminating the inductor circuit or the armature, thanks to its corrosion passivating additives.

SPECIFICATIONS:

NLGI classification 2*

DIN 51502 KP2K-30

ISO 6743/9 L-XCCEB-2

* Available in the following consistencies NLGI 2 and 3

Working temperature from -30 °C to +120 °C

Speed factor: 350.000 mm/min.



PACKAGING:
400 g, 1 kg, 5, 20,
50 and 200 L



COUPLINGS

Couplings are mechanisms designed to transfer movement and power between two shafts while absorbing potential misalignments, thus preventing stress that could damage power train components.

They are generally classified as either rigid or flexible.

Among the various types of couplings, only flexible models (such as sheet/steel mesh or grid, chain, barrel, and crowned toothed gears) require lubrication.

The lubrication recommendations focus on using adhesive greases with high Extreme Pressure (EP) capacity, oil resistance to separation from centrifugal force, and the correct consistency grade (NLGI) depending on the coupling type and manufacturer.

The American Gear Manufacturers Association (AGMA) defines three types of grease according to the AGMA 9001-B97 standard: Type CG-1, CG-2, and CG-3.

These types differ in the viscosity of their base oil (with higher viscosity for heavier loads), their dropping point, and NLGI consistency, which should be selected based on the coupling type, diameter, and rotational speed.

RECOMMENDATIONS:

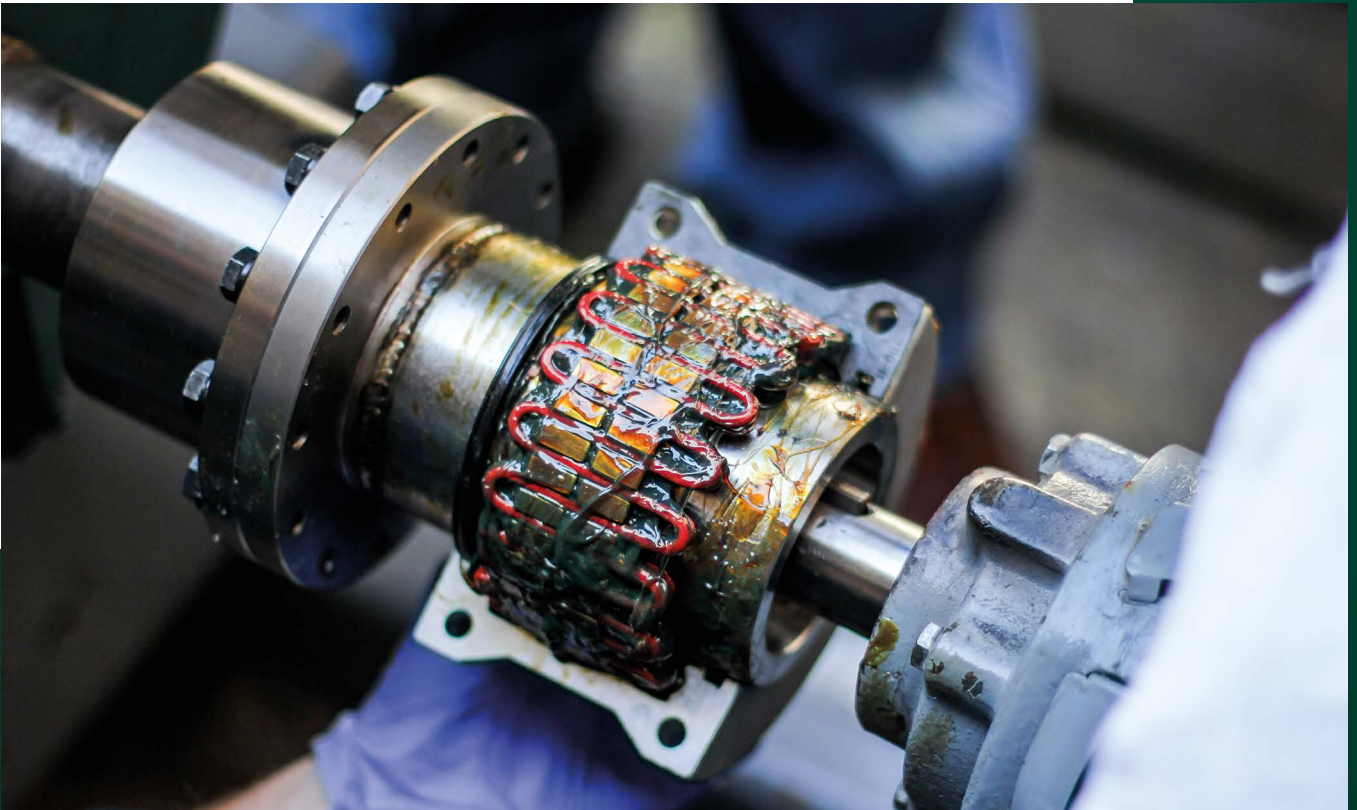
When choosing the most suitable grease, consider the following:

- Complex aluminum greases are recommended by us. Other formulations, such as greases with high polymer content and low soap percentages (complex lithium or calcium greases), can also be used.
- Use greases with strong anti-wear (AW) and extreme pressure (EP) properties.
- Solid additives (typically > 5 %) are advisable for couplings subjected to high loads.



- Ensure the grease is compatible with the seal materials and coupling components.
- The base oil viscosity and NLGI consistency should align with the coupling type and operating conditions.
- The selected grease should pass the oil separation test according to ASTM D4425, as it must withstand accelerations of up to 10g under extreme conditions.
- Fill the coupling with grease up to a maximum of 75 % of its capacity.

Considering these guidelines, leading coupling manufacturers recommend specific types of grease depending on the working conditions of each coupling type.



LUBRICATING WITH GREASES

GRID-BARREL COUPLINGS



STANDARD CONDITIONS

MAXIGRAS C45 LI-EP/2

Multifunctional lithium grease with EP additives, suitable for couplings operating under standard temperature and load conditions.

SPECIFICATIONS:

NLGI classification 2*

DIN 51502 KP2K-30

ISO 6743/9 L-XCCEB-2

* Available in the following consistencies NLGI 00/000, 0, 1, 2 and 3

Working temperature from -30 °C to +120 °C



PACKAGING:
400 g, 1 kg, 5, 20,
50 and 200 L

EXTREME CONDITIONS INCLUDING
HARSH ENVIRONMENTS**MAXIGRAS 102/1**

Calcium sulfonate complex grease with EP additives, formulated with high-viscosity semi-synthetic oils. This long-life product is especially recommended for couplings subjected to extreme loads and vibrations, even in aggressive, humid, saline environments, and under extreme temperatures.

SPECIFICATIONS:

AGMA CG-1 Type, CG-2 Type

NLGI classification 1*

DIN 51502 KP1R-20

ISO 6743/9 L-XBFIB-1

Oil viscosity (cSt to 40 °C) > 500

* Available in the following consistencies NLGI 0, 1, and 2

Working temperature from -20 °C to +180 °C



PACKAGING:
5, 20, 50 and 200 L



HIGH LOADS AND VIBRATIONS

MAXIGRAS COMPLEX M

Black lithium complex grease with EP additives, solid lubricants, and high-viscosity oil. Specially recommended for couplings under extreme loads, vibrations, moisture, and extreme temperatures. Ideal for preventing corrosion caused by vibration.

SPECIFICATIONS:

AGMA CG-1 Type, CG-2 Type

NLGI classification 2/3

DIN 51502 KPF2-20 / KPF3P-20

ISO 6743/9 L-XBEHB-2/3

Oil viscosity (cSt to 40 °C) > 320

Working temperature from -20 °C to +160 °C



PACKAGING:
5, 20, 50 and 200 L

CROWNED TOOTH AND CHAIN COUPLINGS



**EXTREME LOADS AND
LOW SPEEDS**

MAXIGRAS 94 OGL

Fluid black aluminium complex extreme pressure grease, with a very high content of high purity graphite and very high viscosity oil, especially for use in convex tooth couplings under loads and vibrations where greases with solid lubricants, high grip and resistance to centrifugation are required. Prevents contact corrosion.

SPECIFICATIONS:

AGMA CG-1 Type, CG-2 Type and CG-3 Type*

NLGI classification 0/00

DIN 51502 OGPFO/00G-20

* NLGI grade according to Type CG-1/CG-2

Working temperature from -20 °C to +120 °C (peaks up to +140 °C)



PACKAGING:
spray 520 (400 ml €)
5 and 20 L



**EXTREME LOADS AND
MEDIUM-HIGH SPEEDS**

MAXIGRAS 49 WR

Black pseudoplastic semi-fluid lubricant of Calcium Sulphonate Complex, extreme pressure, high purity graphite content and high viscosity oil. High adhesion, especially for cambered tooth couplings under extreme loads and vibrations where greases with solid lubricants, high grip and resistance to centrifugation are required. Prevents contact corrosion. Grease recommended for Browning, Falk, Fast, Koppers, Regal Beloit, etc.

SPECIFICATIONS:

AGMA CG-1 Type, CG-2 Type and CG-3 Type ISO 6743/9 L-XBDIB-1

NLGI classification 1

Oil viscosity (cSt to 40 °C) >680

DIN 51502 OGPFO1N-20

Working temperature from -20 °C to +150 °C



PACKAGING:
5, 20, 50 and 200 L



**EXTREME CONDITIONS
HARSH ENVIRONMENTS**

MAXIGRAS 102/1

Calcium Sulphonate Complex extreme pressure grease formulated with high viscosity semi-synthetic oils. Long-lasting and highly adhesive, it is especially recommended for curved tooth couplings under extreme loads and vibrations, even under aggressive environments and extreme temperatures. Grease recommended by Browning, Falk, Fast, Koppers, Regal Beloit, etc.

SPECIFICATIONS:

AGMA CG-1 Type, CG-2 Type

ISO 6743/9 L-XCFIB-1

NLGI classification 1*

Oil viscosity (cSt to 40 °C) > 500

DIN 51502 KP1R-30

* Available in the following consistencies NLGI 0, 1, 1.5 and 2

Working temperature from -20 °C to +180 °C



PACKAGING:
5, 20, 50 and 200 L

SPEED MULTIPLIERS MOTOR VARIATORS GEAR MOTORS GEARBOXES SEALED HOUSING GEARS

Mechanisms designed to adapt engine speeds and output torque to the element entrusted with transmitting power. They normally operate in a closed crankcase. Their interior features a set of toothed cogs (gears) of a variety of designs, each of which is attached to its shaft and located on its respective bearings or friction bushings.

RECOMMENDATIONS:

Oils and greases with EP properties should be used for the correct lubrication of the gears of these mechanisms.

The degree of viscosity of the oils and the consistency of the greases is determined in accordance with the speeds and designs of each manufacturer.

The use of synthetic or mineral lubricants is subject to the service temperatures, drainage intervals, environmental requirements and regulations in force, particularly in food applications where we recommend the use of our MAXIGEAR ATOX, registered by InS and NSF as USDA H1 quality food grade lubricants.

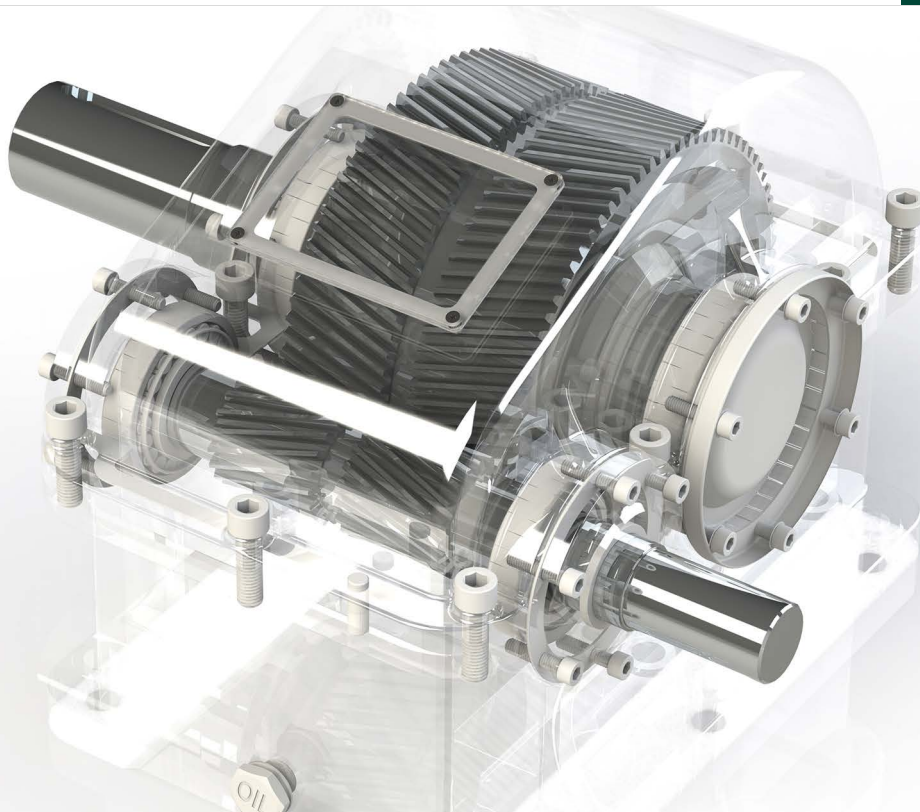


In the case of small gears and gear motors we should highlight our MAXIGRAS 91, a pseudo-plastic gel especially recommended for worm gearboxes, in addition to the common use of MAXIGRAS C45 Li-EP 00/000 fluid grease and/or the so-called lifelong greases such as our MAXIGRAS 47 PLUS.

The lubrication of support bushings, bearings and gears in the crankshaft may be conducted by means of forced circulation (large gearboxes), splash or mist systems or a combination of the same, in accordance with the design and dimensions of the mechanism. The bearings of large gearboxes are also greased independently with EP greases (see the Bearing Grease section).

OLIPES lubricating oils for gearboxes provide the following advantages:

- They prevent the formation of varnish, lacquer and sludge.
- Minimum tendency to form foam.
- Rapid separation of water and moisture.
- High extreme pressure (EP) and anti-wear (AW) capacity.
- Maximum anti-corrosion and anti-rust protection for the lubricated parts.
- Long service life due to the anti-oxidant properties of its bases and additives.



LUBRICATING WITH GREASES



EXTREME CONDITIONS

MAXIGRAS 94 OGL

Black fluid aluminium complex extreme pressure black grease, with a very high content of high purity graphite and very high viscosity oil, especially for extremely loaded bronze-free gearboxes and geared motors with severe wear and/or pitting problems, as well as in gearbox bearings.

SPECIFICATIONS:

NLGI classification 0/00

DIN 51502 OGPFO/00G-20

Oil viscosity (cSt to 40 °C) >1.500

Working temperature from -20 °C to +120 °C (peaks up to +140 °C)



PACKAGING:
spray 520 (400 ml €)
5 and 20 L



STANDARD CONDITIONS

MAXIGRAS C45 Li EP 00/000

Fluid lithium extreme pressure grease recommended for small gearboxes and geared motors requiring fluid greases under standard operating temperature conditions.

SPECIFICATIONS:

NLGI classification 00/000*

DIN 51502 OGPFO0/000G-30

ISO 6743/9 L-XCBEB-00, L-XCBEB-000

* Available in the following consistencies NLGI 00/000, 0, 1, 2 and 3

Working temperature from -30 °C to +100 °C (peaks up to +120 °C)



PACKAGING:
5, 20, 50 and 200 L



LIFELONG LUBRICATION

MAXIGRAS 47 PLUS

Synthetic fluid lithium extreme pressure grease especially for all types of small gearboxes and geared motors operating at high temperatures and those with the possibility of lifetime greasing.

SPECIFICATIONS:

NLGI classification 0/00

DIN 51502 GPHCO/002K-30

ISO 6743/9 ISO-L-XCCHB-0/00

Working temperature from -30 °C to +120 °C (peaks up to +135 °C)



PACKAGING:
5, 20 and 50 L



**LONG-LIFE
HEAVY-LOAD
HIGH TEMPERATURE**

MAXIGRAS 91

Semi-synthetic pseudoplastic gel with a filmy appearance that maintains its structure at room temperature and fluidises when subjected to shear stress in the gearbox. Recommended for all types of small to medium sized gearboxes and geared motors at linear speeds below 1.6m/s, especially those with sealing or housing leakage problems with conventional oils.

SPECIFICATIONS:

- AGMA 9005/D94
- API GL-4
- DIN 51571 Part 3 CLP
- US STEEL 224
- Brookfield viscosity at 25 °C > 7.000 cPs
- Working temperature from -15 °C to +120 °C



PACKAGING:
50 and 200 L



**LONG-LIFE
FOOD-GRADE LUBRICATION**

MAXIGRAS 591

Semi-synthetic pseudoplastic gel with a filmy appearance, made from components suitable for use in the food industry and NSF H1 approved, which maintains its structure at room temperature and fluidises when subjected to shear stress in the gearbox. Recommended for all types of small to medium sized gearboxes and geared motors at linear speeds below 1.6m/s, especially those with sealing or housing leakage problems with conventional oils.

SPECIFICATIONS:

- API GL-4
- DIN 51571 Part 3 CLP
- US STEEL 224
- Brookfield viscosity at 25 °C > 7.000 cPs

APPROVALS:

Approved by NSF H1 and HALAL

Working temperature from -15 °C to +120 °C



PACKAGING:
20 and 200 L

LUBRICATING WITH OIL

Gearboxes, gear motors, multipliers, variators, open gears, ring gears, drive sprockets and rack drives with a good watertight casing may use high-viscosity oils reinforced with Extreme Pressure and solid additives to ensure excellent protection, such as FLOW PO, OLIOL, MAXIGEAR SYN/ATOX and MAXIGRAS 91 pseudo-plastic gel.



**LOW TEMPERATURES
HIGH LOADS
FOOD GRADE**

MAXIGEAR ATOX VISCOSITIES ISO 100 TO 460

Range of 100 % synthetic oils of different viscosity grades formulated with food grade PAO base oils and suitable for all types of gearboxes, chains and aerial conveyors. Compatible with mineral, HC and synthetic PAO base oils.

SPECIFICATIONS:

- AGMA 9005-D94EP
- DIN 51517 Part 3 CLP
- ISO 12925-1 and 6743/6 CKC, CKD, CKS

APPROVALS:

Approved by NSF H1 and HALAL



PACKAGING:
20 and 200 L



**EXTREME TEMPERATURES
AND LOADS**

MAXIGEAR SYN VISCOSITIES ISO 100 TO 460

Range of 100 % synthetic oils of different viscosity grades formulated with PAO base and synthetic esters, specially designed to withstand extreme load and temperature situations. Its advanced formulation provides an extraordinary chemical resistance to oxidation even with temperature peaks of more than 140 °C, providing high drainage periods and a high reduction of costs due to maintenance stoppages.

Recommended for gear systems, gearboxes, plain bearings, guides and bearings where a lubricant with EP properties and excellent cold flow properties is required. Excellent protection against heavy shock and/or sliding loads.

SPECIFICATIONS:

AGMA 9005-D94 EP

DAVID BROWN S1.53.101

DIN 51517 Part 3 CLP

FIVES CINCINNATI (depending on viscosity)

ISO 12925-1 and 6743/6: CKC, CKD, CKS

US STEEL 224



PACKAGING:
20 and 200 L



**STANDARD TEMPERATURES
AND HIGH LOADS**

FLOW P.O. VISCOSITIES ISO 100 TO 680

Range of oils of different viscosity grades formulated with highly refined mineral bases and latest generation ash-free additives. Their advanced formulation provides an extraordinary capacity to withstand heavy loads (EP properties).

Recommended for gear systems, gearboxes, plain bearings, guides and bearings where a lubricant with EP properties. Excellent protection against heavy shock and/or sliding loads.

SPECIFICATIONS:

AGMA 9005-D94 EP

DAVID BROWN S1.53.101-E

DIN 51517 Part 3 CLP

FIVES CINCINNATI (depending on viscosity)

ISO 12925-1 and 6743/6 CKC, CKD

US STEEL 224



PACKAGING:
20, 200 and 1000 L



**EXTREME TEMPERATURES AND LOADS
ENVIRONMENTALLY FRIENDLY**

MAXIGEAR BBO VISCOSITIES ISO 150 TO 320

Range of biodegradable lubricating oils of different viscosity grades formulated on a 100 % synthetic ester base for the lubrication of industrial gears subjected to high pressures and high torques, gearboxes, multipliers, mechanical variators, worm gears, planetary gears, hypoid gears and chains. Also recommended as biodegradable circulation oils for gears and bearings. They have extreme pressure, anti-wear, anti-rust and anti-corrosion properties and are reinforced with greasing agents that significantly improve their lubricating properties compared to traditional lubricants. They are characterised by their high biodegradability (over 80 % in the CEC L-33-A-93 test)*, excellent thermal stability and service life, minimising downtime and maintenance costs⁽¹⁾.

SPECIFICATIONS:

DIN 51517 Part 3 CLP
ISO 12925-1 CKC - CKD

US STEEL 224



PACKAGING:
20 and 200 L



SEVERE TEMPERATURES AND LOADS

OLIOIL VISCOSITIES ISO 68 TO 680

Range of 100 % synthetic high-performance oils based on 100 % synthetic polyglycols of different viscosity grades. These are high-performance synthetic oils based on polyglycols, for lubrication of compressors, bearings and gears, with very high resistance to seizure and anti-wear protection. OLIOIL oils have a high natural viscosity index (V.I.), low coefficient of friction, high load carrying characteristics, low freeze points, high thermal and oxidation stability, low or no carbonaceous residue formation, compatibility with most elastomeric sealants⁽²⁾, good thermal conductivity (allowing easy heat dissipation) and good shear stability. Recommended for applications in extreme conditions and operating temperatures from -35°C to +200 °C and in all machinery where a synthetic gear oil is recommended for continuous operation above +150 °C.

SPECIFICATIONS:

AGMA: 9005-D94EP
DAVID BROWN S1.53.106
DIN 51517 Part 3 CLP

FIVES CINCINNATI (depending on
viscosity)
ISO 12925-1 and 6743/6 CKC, CKD, CKS
US STEEL 224



PACKAGING:
20 L

(1) **MAXIGEAR BBO** oils are miscible with others used for the same purposes and with identical levels of quality. It is advisable to check the state of the other oil and the system in question prior to mixing. Check the joints and seals are suitable for this type of lubricant (NBR nitrile rubber, Chloroprene, Viton® FPM fluoro rubber, EPDM butyl rubber).

(2) **OLIOIL:** Depending on the weather and the temperature, polyglycol synthetic based oils may attack elastomers. At constant temperatures of up to 100 °C NBR-type rubber joints (acrylonitrile- butadiene rubber) may be used, or even SBR. For higher temperatures we recommend the use of FKM-based watertight materials (fluoro rubber), VMQ (vinyl methyl silicone), SBM and SILICONE (which withstand peaks of up to 250 °C), among others. VITON (black fluoroelastomer which withstands temperature peaks of up to 300 °C) joints are recommended in the event of the considerable loss of lubricant due to misalignments, as the use of this type of oil as a lubricant may result in the volume of these joints increasing by up to 7.95 %, thereby reducing such lubricant loss (test method for the determination of the % change in volume based on ASTM D-471 for 166 hours at 70 °C, ± 2 °C).

We recommended the use of epoxy resin coatings or epoxy phenolic paint on parts which come into contact with the lubricant, given the natural tendency of polyglycols to soften and sometimes strip paints and coatings. The level windows should be made of natural glass or polyamide-based materials, as other transparent plastic materials such as plexiglass might crack. Not compatible with mineral oils.



OPEN GEARS PINIONS RACKS

These mechanisms are used to transfer power between separate shafts, with high torque and major reductions in speed. They are normally used in the open or protected by a watertight casing.



LUBRICATING WITH GREASES

For open gears, ring gears, drive pinions, and rack drives, we recommend using adhesive greases like MAXIGRAS OGL, which are heavily fortified with Extreme Pressure (EP) additives and solid lubricants. This ensures superior protection against moisture and extreme environmental conditions.

MAXIGRAS OGL greases meet the stringent requirements set by leading drive gear manufacturers, including ThyssenKrupp Polysius, Fuller, Flender, David Brown, and Svedala-Allis.

MECHANISMS WHICH ARE SMALL IN SIZE OR DIFFICULT TO REACH

These mechanisms can be lubricated manually using a brush or spatula, or through a centralized lubrication system. Both methods accommodate the use of fluid or semi-solid greases with high adhesion and Extreme Pressure (EP) solid additives.



AEROSOL, MANUAL OR
CENTRALIZED LUBRICATION

MAXIGRAS 94 OGL

Fluid black Aluminium Complex extreme pressure grease, with a very high content of high purity graphite and very high viscosity oil, especially for manual or automatic lubrication in all types of open gears where fluid greases are required.

SPECIFICATIONS:

NLGI classification 0/00*
DIN 51502 OGPFO/00G-20
Oil viscosity (cSt to 40°C) >1.500
* Available in spray

Working temperature from -20 °C to +120 °C (peaks up to +140 °C)



PACKAGING:
spray 520 (400 ml €)
5 and 20 L



MANUAL OR CENTRALIZED
LUBRICATION

MAXIGRAS COMPLEX M

Black Lithium Complex extreme pressure grease with solid lubricants and high viscosity oil, especially recommended for pinion-crown drives operating under extreme loads and vibrations, presence of humidity and extreme temperatures, where greases with extreme pressure solid lubricants are required. For manual use and in centralized systems allowing the use of consistent greases, with solid lubricants.

SPECIFICATIONS:

NLGI classification 2/3
DIN 51502 KPF2-20 / KPF3P-20
ISO 6743/9 L-XBEHB-2/3
Oil viscosity (cSt to 40 °C) > 320

Working temperature from -20 °C to +160 °C



PACKAGING:
5, 20, 50 and 200 L



MANUAL OR CENTRALIZED
LUBRICATION

MAXIGRAS 49 WR

Black pseudoplastic semi-fluid lubricant of Calcium Sulphonate Complex, extreme pressure, high purity graphite content and high viscosity oil. High adhesion, especially for greasing pinion-crown gear drives working under extreme loads and vibrations, presence of humidity and extreme temperatures where greases with extreme pressure solid lubricants are required. For manual use, as well as in centralized systems that allow the use of greases that are consistent with solid lubricants.

SPECIFICATIONS:

NLGI classification 1
DIN 51502 OGP1N-20
ISO 6743/9 L-XBDIB-1
Viscosidad dinámica (cSt to 40 °C) > 680
Working temperature from -20 °C to +150 °C



PACKAGING:
5, 20, 50 and 200 L



AEROSOL, MANUAL OR
CENTRALIZED LUBRICATION

MAXIGRAS 593

White Aluminium Complex extreme pressure white grease with PTFE type solid additives, NSF approved for use in the food industry, with special low friction characteristics on sliding surfaces, even in extreme working conditions and temperatures.

SPECIFICATIONS:

NLGI classification 2
DIN 51502 KPF2P-30
ISO 6743/9 L-XCEIB-2

APPROVALS:

Approved by NSF H1 and HALAL

Working temperature from -30 °C to +160 °C



PACKAGING:
spray 520 (400 ml e),
5, 20, 50 and 200 L

NEW DRIVES IN THE RUNNING-IN PHASE



SPRAYING, DRIPPING AND
SPLASH LUBRICATION

MAXIGRAS 94 OGL/R

Black fluid adherent aluminium complex extreme pressure grease with a very high content of high purity graphite and molybdenum disulphide, manufactured with very high viscosity oil. Especially recommended for the ROLLING and RECOVERY phase of large pinion-crown gear drives acting by plastic deformation and without polishing effect. It can be applied in spraying and splash systems.

SPECIFICATIONS:

NLGI classification 00
DIN 51502 OGP00E-20
Oil viscosity (cSt to 40 °C) > 1.000

Working temperature from -20 °C to +120 °C (peaks up to +140 °C)
Spraying temperature: -0 °C maximum



PACKAGING:
200 L

DRIVES SUBJECTED TO HIGH LOADS



SPRAYING, DRIPPING AND
SPLASH LUBRICATION

MAXIGRAS 94 OGL

Adherent Aluminium Complex extreme pressure fluid black grease with a very high content of high purity graphite and very high viscosity oil, especially recommended for large open gears when a fluid grease is required for application by means of SPRAY or SPLASH systems or NORIA WHEEL. It exceeds the standards of manufacturers such as Polysius, FLSmith, Humboldt, Talleres Iruña, etc., and/or spraying systems such as Lincoln Helios, De Limon, Woerner, Nortek, Neubor, etc.

SPECIFICATIONS:

NLGI classification 0/00

DIN 51502 OGPFO/00G-20

Oil viscosity (cSt to 40 °C) > 1.500

Working temperature from -20 °C to +120 °C (peaks up to +140 °C)

Spraying temperature: -0 °C maximum



PACKAGING:
spray 520 (400 ml €)
5 and 20 L



SPRAYING, DRIPPING AND
SPLASH LUBRICATION

MAXIGRAS 94 OGL/F

Very fluid and adherent Complex Aluminium extreme pressure black grease with a very high content of high purity graphite and very high viscosity oil, especially recommended for large open gears using SPLASH - NORIA WHEEL systems where greater fluidity and grease return to the crankcase is required. Also suitable for SPRAY lubrication systems.

SPECIFICATIONS:

Clasificación NLG 000

DIN 51502 OGPFO00G-20

Oil viscosity (cSt to 40 °C) > 1.500

Working temperature from -20 °C to +120 °C (peaks up to +140 °C)

Spraying temperature: -0 °C maximum



PACKAGING:
200 L



SPRAYING, DRIPPING AND
SPLASH LUBRICATION

MAXIGRAS 94 OGL/2500

Adherent Aluminium Complex extreme pressure fluid black grease with a very high content of high purity graphite and extremely high viscosity oil, especially recommended for large open gears when a fluid grease is required for application by SPRAY and/or SPLASH - NORIA WHEEL lubrication systems when the gear is damaged or vibrates excessively and a thicker lubricating grease is required.

SPECIFICATIONS:

NLGI classification 0/00

DIN 51502 OGPFO/00G-20

Oil viscosity (cSt to 40 °C) > 2.500

Working temperature from -20 °C to +120 °C (peaks up to +140 °C)

Spraying temperature: -0 °C maximum



PACKAGING:
200 L



CHAINS

Drive components are designed to transfer power between shafts, with various chain geometries tailored to their primary function—whether for load-bearing or power transmission. The type, distribution, and number of links and pins will vary accordingly.

RECOMMENDATIONS:

Selecting the appropriate lubricant depends on factors such as chain type, speed, operating temperature, load, and environmental conditions. Choose a lubricant that penetrates the casing effectively to reach and lubricate the rollers. We recommend a lubricant with excellent anti-wear, anti-corrosion, and sealing properties, and ensure it is compatible with the sealing materials.



LUBRICATING WITH OIL

The table below serves as a guideline to choose the correct viscosity of the oil to be used for the lubrication of the chain in accordance with its linear speed, the greasing system used (manual, drip, splash or forced circulation), and the pressure the pin is subjected to.

PRESSURE ON THE LINK (N/mm ²)	MANUAL OR DRIP LUBRICATION			SPLASH LUBRICATION	
	Speed of the chain (m/s)			Speed of the chain (m/s)	
	< 1	1 a 5	> 5	< 5	> 5
	Viscosity ISO VG			Viscosity ISO VG	
	< 10	32 - 46	46 - 68	68 - 100	32 - 46
10 to 20	46 - 68	68 - 100	100 - 220	46 - 68	68 - 100
20 to 30	68 - 100	100 - 220	150 - 320	68 - 100	100 - 220

The viscosity values listed in the table are ideal for chain lubrication within the temperature range of -20 °C to +50 °C. For temperatures outside this range or under extreme conditions, please contact our technical support. OLIPES provides customized solutions and may suggest specific greases for certain applications. Reach out for personalized technical guidance.



FLOW P.O.

VISCOSITIES ISO 100 TO 680

Range of lubricating oils formulated with highly refined mineral bases and latest generation ash-free additives. Their advanced formulation provides an extraordinary capacity to withstand heavy loads (EP properties).

Recommended for all types of drip, spray or splash lubricated chains under standard conditions.

SPECIFICATIONS:

AGMA 9005-D94 EP

DIN 51517 Part 3 CLP

ISO 12925-1 and 6743/6 CKC, CKD



PACKAGING:
20, 200 and 1000 L

STANDARD CONDITIONS





ENVIRONMENTALLY FRIENDLY

MAXIGEAR BBO

VISCOSITIES ISO 150 TO 320

Range of biodegradable lubricating oils of different viscosity grades formulated in a 100% synthetic ester base for chain lubrication.

Also recommended as biodegradable circulation oils for gears and bearings. They have extreme pressure, anti-wear, anti-rust and anti-corrosion properties and are reinforced with greasing agents that significantly improve their lubricating properties compared to traditional lubricants.

SPECIFICATIONS:

AGMA: 9005-D94EP
DIN 51517 Part 3 CLP
ISO 12925-1 and 6743/6 CKC, CKD, CKS



PACKAGING:
20 and 200 L



EXTREME TEMPERATURES

ACAT SE

Ester-based synthetic lubricating oils. Minimum residue formation. Recommended for all types of drip, spray or splash lubricated chains in a wide range of operating temperatures: from -40 °C* to +250 °C. Low volatility.

ACAT SE chain oils offer high oxidation resistance and excellent protection against heavy shock and/or sliding loads, reducing chain elongation. Available in a wide range of viscosities. Compatible with mineral oils.

SPECIFICATIONS:

AGMA 9005-D94EP
DIN 51517/3-CLP
ISO 3498-CKC

* In accordance with degree of viscosity



PACKAGING:
5, 20, 50 and 200 L





**LOW TEMPERATURES
HIGH LOADS
FOOD GRADE**

MAXIGEAR ATOX VISCOSITIES ISO 100 TO 460

Range of 100 % synthetic oils of different viscosity grades formulated with food grade PAO base oils and suitable for all types of gearboxes, chains and aerial conveyors. Compatible with mineral, HC and synthetic PAO base oils.

SPECIFICATIONS:

AGMA 9005-D94EP
DIN 51517 Part 3 CLP
ISO 12925-1 and 6743/6 CKC, CKD, CKS

APPROVALS:

Approved by NSF H1 and HALAL



PACKAGING:
20 and 200 L



LUBRICATING WITH FLUID GREASES



**SMALL SIZE MECHANISMS OR
DIFFICULT TO REACH UNDER
EXTREME PRESSURES AND LOADS**

MAXIGRAS 94 OGL

Adherent aluminium complex extreme pressure black fluid grease with a very high content of high purity graphite and very high viscosity oil, especially recommended for chains with wear problems and/or working at very high temperatures.

SPECIFICATIONS:

NLGI classification 0/00*
DIN 51502 OGPF0/00G-20
Oil viscosity (cSt to 40 °C) > 1.500

* Available in spray

Working temperature from -20 °C a +120 °C (peaks up to +140 °C)



PACKAGING:
spray 520 (400 ml e)
5 y 20 L





**SMALL SIZE MECHANISMS
EXTREME LOADS AND TEMPERATURE
FOOD GRADE**

MAXIGRAS 593

White Aluminium Complex extreme pressure white grease with PTFE type solid additives, NSF approved for use in the food industry, with special low friction characteristics on sliding surfaces, even in extreme working conditions and temperatures, as well as in all types of transport chains.

SPECIFICATIONS:

NLGI classification 2*
DIN 51502 KPF2P-30
ISO 6743/9 L-XCEIB-2

* Available in spray

APPROVALS:

Approved by NSF: H1 and HALAL

Working temperature from -30 °C to +160 °C



PACKAGING:
spray 520 (400 ml e),
5, 20, 50 and 200 L



MULTIFUNCTIONAL AEROSOL

MAXIGRAS CADENAS

SPRAY grease with excellent lubricating power with EP and PTFE additives. Excellent penetration and adherence. Anti-wear and sealing effect properties. Withstands high dynamic and sliding loads.

PROPERTIES / APPLICATIONS:

- Eliminates annoying noises from car door hinges.
- Softens the functioning of the central locking.
- Thoroughly lubricates the brake and clutch cable casings.
- Lubricates motorcycle chains.
- Prolongs the useful life of lubricated elements.

Working temperature from -35 °C to +150 °C



PACKAGING:
spray 520 (400 ml e)



**EXTREME VISCOSITY APPLICATIONS
UNDER HIGH LOADS AND
TEMPERATURES**

VISCOFLOW 300

Highly adherent SYNTHETIC lubricant (HONEY GREASE), especially recommended for graphic arts (MAN-ROLAND, HEILDELBERG, KBA, etc), the textile industry (dryer chains), the paper, timber and manufacturing industry, and applications which require chain lubricants with extremely high viscosity and very low evaporation.

Recommended for the lubrication of heavily loaded low-speed chains.

SPECIFICATIONS:

DIN 51517/3-CLP

ISO 3498-CKC

US STEEL 224

Viscosity 300 cSt to 100 °C



PACKAGING:
1 and 5 L



**HIGH LOADS AND TEMPERATURES
PSEUDOPLASTIC LUBRICANT**

MAXIGRAS 49 WR

Black pseudoplastic calcium sulphonate complex extreme pressure lubricant, with a high content of high purity graphite and very high viscosity oil.

Maximum adhesion and protection of chains subjected to very high temperatures, vibrations, humidity and in harsh environments.

SPECIFICATIONS:

NLGI classification 1

DIN 51502 OGP1N-20

ISO 6743/9 L-XBDIB-1

Oil viscosity: (cSt to 40°C) >680

Working temperature from -20 °C a +150 °C



PACKAGING:
5, 20, 50 and 200 L

SPLINED SHAFTS CARDAN AND CV JOINTS JOINTS BOLTS BUSHINGS BALL JOINTS

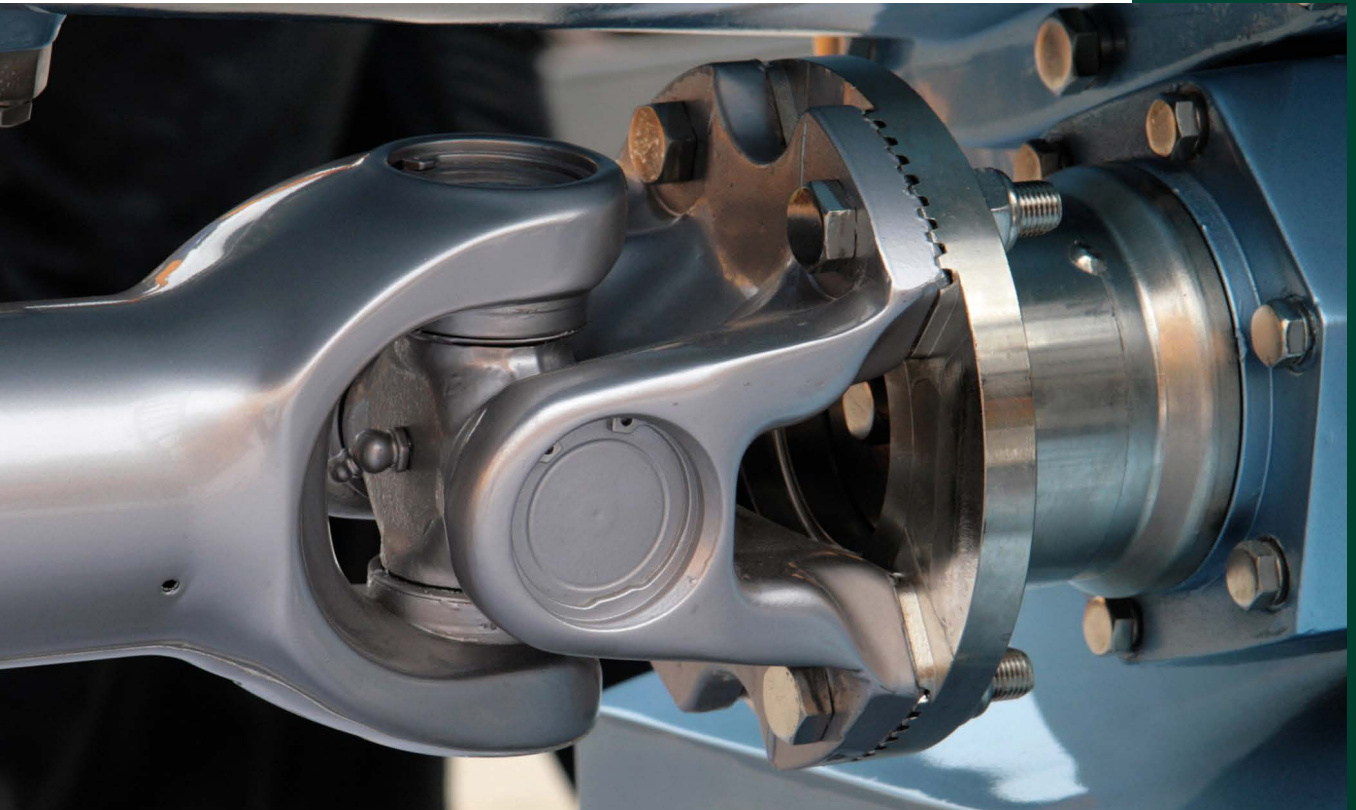
Splined Shafts feature a linear male-female coupling that provides a rigid connection between two shafts.

Cardan Joints and Universal Joints are mechanisms used to transfer movement between two shafts that rotate at the same speed but may operate at varying angles, transmitting high torque. A universal joint, also known as a tripod joint, allows for oscillatory movement between drive shafts. CV Joints can be of two types: the Glaencer-Spicer CV joint, which uses two cardan joints connected by a double pin, and the Rzeppa CV joint, which features a complex ball joint with balls housed in a special cage. Another variant is the "tracta" joint, which has pins on the input and output shafts coupled to two central parts (male and female) to ensure that movement transmission elements remain in the bisecting plane.

Joints, Bolts, Bushings, and Ball Joints are self-aligning components that allow for rotation between shafts or parts without transferring power or torque. They require precise tolerances, and, except for self-lubricated bushings, should be lubricated following similar guidelines to those used for cardan and CV joints.

**RECOMMENDATIONS:**

- These components endure continuous wear, significant stress, and harsh environmental conditions such as water, moisture, mud, and dust.
- We recommend using consistent Extreme Pressure (EP) greases with water resistance, vibration protection, corrosion resistance, and sealing properties. High solid additive greases, such as MAXIGRAS 46 and COMPLEX M, are often used as emergency lubricants.





STANDARD CONDITIONS

MAXIGRAS C42/3

Multifunctional anhydrous calcium grease for use on seals with high sealing, adhesion and resistance to moisture and water washout in standard temperature environments.

SPECIFICATIONS:

NLGI classification 3*
DIN 51502 M3G-20 / K3G-20
ISO 6743/9 L-XBBEA-3

Working temperature from -20 °C to +100 °C



* Available in the following consistencies NLGI 2 and 3



PACKAGING:
5, 20, 50 and 200 L



HIGH LOADS

MAXIGRAS C45 Li-EP/3

Multifunctional lithium extreme pressure grease, recommended for all types of CV joints, cardan joints, pins, etc. in high pressure working conditions and temperature standards.

SPECIFICATIONS:

NLGI classification 3*
DIN 51502 KP3K-30
ISO 6743/9 L-XBCEB-3

Working temperature from -30 °C to +120 °C



* Available in the following consistencies NLGI 2 and 3



PACKAGING:
400 g, 1 kg, 5, 20,
50 and 200 L



VERY HIGH LOADS

MAXIGRAS 46/3

Black multifunctional lithium extreme pressure grease with solid lubricants and molybdenum disulphide, recommended for the lubrication of all types of CV joints, cardan joints, pins, etc. under high pressure and temperature standards.

SPECIFICATIONS:

NLGI classification 3*
DIN 51502 KPF2K-20
ISO 6743/9 L-XBCEB-3

Working temperature from -20 °C to +120 °C



* Available in the following consistencies NLGI 2 and 3



PACKAGING:
400 g, 5, 20, 50 and
200 L

HARSH ENVIRONMENTS AND
HIGH TEMPERATURES**MAXIGRAS ANTISEIZE**

Copper assembly paste with excellent adhesion and abrasion resistance. Recommended for use as an assembly lubricant for threaded joints and sliding surfaces of all types. Effectively combats wear of mating parts and seizure of metal surfaces, even at high temperatures and in corrosive media. Its extremely low coefficient of friction allows easy disassembly of lubricated parts.

SPECIFICATIONS:

NLGI classification 1/2
DIN 51818

Working temperature from -20 °C to +1100 °C*

* Maximum working temperature in dry lubrication mode (solid additives).



PACKAGING:
1 kg





HARSH ENVIRONMENTS AND HIGH TEMPERATURES

MAXIGRAS COMPLEX Li-EP/2

Blue complex lithium extreme pressure grease for greasing all types of pins and bushings, as well as all types of transmissions and CV joints under heavy loads, vibrations and high temperatures.

SPECIFICATIONS:

- NLGI classification 2/3
- DIN 51502 KP2-30 / KP3P-30
- ISO 6743/9 L-X-CEHB-2/3
- NLGI GC-LB
- JOHN DEERE J13C/J25C

Working temperature from -30 °C to +160 °C (peaks up to +180 °C)



PACKAGING:
5, 20, 50 and 200 L



HIGH LOADS, VIBRATIONS AND HIGH TEMPERATURES

MAXIGRAS COMPLEX M

Black extreme pressure lithium complex grease with solid lubricants and high viscosity oil, especially for the lubrication of metal-to-metal contact surfaces under heavy shock loads, vibrations and limited sliding, even at very high temperatures as well as on all types of pins, transmissions and CV joints.

SPECIFICATIONS:

- NLGI classification 2/3
- DIN 51502 KPF2-20 / KPF3P-20
- ISO 6743/9 L-XBEHB-2/3
- Oil viscosity: (cSt to 40 °C) >320

Working temperature from -20 °C to +160 °C



PACKAGING:
5, 20, 50 and 200 L



HIGH LOADS, VIBRATIONS AND TEMPERATURE IN HARSH ENVIRONMENTS

MAXIGRAS 102/2

Calcium Sulphonate Complex extreme pressure grease formulated with high viscosity semi-synthetic oils.

Long life and high adhesion, it is preferred by transmission manufacturers in applications where maximum reliability is required, especially under extreme loads and vibrations, even under aggressive environments and extreme temperatures.

SPECIFICATIONS:

- NLGI classification 2
- DIN 51502 KP2R-20
- ISO 6743/9 L-XBFIB-2
- Oil viscosity: (cSt to 40 °C) >500

Working temperature from -20 °C to +180 °C



PACKAGING:
5, 20, 50 and 200 L



BEARINGS PULLEYS

Bearing:

A part designed to reduce the friction of a moving shaft by means of rolling elements located between two tracks, generating a rolling friction.

Pulley:

A system used to transfer mechanical power between separate shafts at different heights, with the aim of varying the speed and torque between these shafts. The power to be transferred is limited by the dimensions and number of pulleys. If both the driver pulley and the driven pulley do not move to the shaft together they will both use bearings or bushings on each shaft.



LUBRICATING WITH OILS

For the lubrication of bearings and bushings in forced oil circulation systems or by crankcase please see the Multipliers section (pages 16-17) in this catalogue.

LUBRICATING WITH GREASES

RECOMMENDATIONS:

In order to select the right lubricant for these components, is necessary to consider some points:

- **Operational Factors:** Consider the load, vibration, service temperature, cold start temperature, and the maximum temperature and speed limits of the element.
- **External Contaminants:** Account for exposure to moisture, water, alkalis, acids, mud, dust, and abrasive solids.
- **Operational and Environmental Requirements:** Evaluate needs such as contact with food or requirements for biodegradability.

Fluid greases are generally preferred in central lubrication, although the use of NLGI 0, 1 and 2 consistency greases is becoming increasingly frequent, depending on the type of pump and nominal pressure, the diameter of the tubes, length of the circuit, number of cubits... and the design and recommendations of the manufacturer of the equipment.

While the OEM guidelines should always be followed, OLIPES provides detailed recommendations for greases based on operational factors, external contaminants, and specific operational and environmental requirements to optimize equipment performance.



STANDARD CONDITIONS AND
HIGH PRESSURE

MAXIGRAS C45 Li-EP/2

Multifunctional Lithium extreme pressure grease for the lubrication of all types of bearings and joints under high pressure conditions at normal temperatures and speeds. Recommended for manual greasing, as well as for automatic and single point lubrication installations recommending the use of consistent greases and available in softer consistencies for use in automatic systems requiring more fluid greases.

SPECIFICATIONS:

NLGI classification 2*

DIN 51502 KP2K-30 (NLGI 2)

ISO 6743/9 L-XCCEB-2 (NLGI 2)

* Available in the following consistencies NLGI 00/000, 0, 1, 2 and 3

Working temperature from -30 °C to +120 °C (peaks up to +135 °C)



PACKAGING:
400 g, 1 kg, 5, 20,
50 and 200 L



STANDARD CONDITIONS AND
HIGH LOADS

MAXIGRAS 46/2

Black multifunctional lithium extreme pressure grease with molybdenum disulphide for the greasing of all types of rolling and plain bearings operating under special conditions of high load and friction at standard temperatures and speeds. Recommended for manual greasing and in those automatic lubrication installations that allow the use of greases consistent with solid lubricants.

SPECIFICATIONS:

NLGI classification 2*

DIN 51502 KPF2K-20

ISO 6743/9 L-XBCEB-2

* Available in the following consistencies NLGI 2 and 3

Working temperature from -30 °C to +120 °C (peaks up to +135 °C)



PACKAGING:
400 g, 5, 20, 50
and 200 L



VERY HIGH LOADS, VIBRATIONS
AND TEMPERATURES

MAXIGRAS COMPLEX Li-EP/2

Lithium blue complex extreme pressure grease for the greasing of all types of rolling and plain bearings operating under conditions of high loads, vibrations and high temperatures, even at medium-high speeds. Complies with NLGI GC-LB according to ASTM-D-4590 for automotive chassis and wheel hub lubrication.

Recommended for manual greasing and in those automatic lubrication installations that allow the use of consistent greases. Recommended for manual greasing and in those automatic lubrication installations that allow the use of consistent greases.

SPECIFICATIONS:

NLGI classification 2/3
DIN 51502 KP2-30 / KP3P-30
ISO 6743/9 L-X-CEHB-2/3
NLGI GC-LB

Working temperature from -30 °C to +160 °C (peaks up to +135 °C)



PACKAGING:
400 g, 1 kg, 5, 20,
50 and 200 L



EXTREME LOADS AND
TEMPERATURES

MAXIGRAS COMPLEX M

Black Lithium Complex extreme pressure grease with solid lubricants and high viscosity oil specially designed for the lubrication of bearings and joints operating under extreme loads and vibrations even at high temperatures and where the use of extreme pressure solid lubricants is required. Recommended for manual greasing and in those automatic lubrication installations that allow the use of greases consistent with solid lubricants.

SPECIFICATIONS:

NLGI classification 2/3
DIN 51502 KPF2-20 / KPF3P-20
ISO 6743/9 L-XBEHB-2/3
Oil viscosity: (cSt to 40°C) >320

Working temperature from -20 °C to +160 °C



PACKAGING:
5, 20, 50 and 200 L



HIGH LOADS, VIBRATIONS AND
TEMPERATURE IN
HARSH ENVIRONMENTS

MAXIGRAS 102/2

Calcium Sulphonate Complex extreme pressure grease formulated with high viscosity semi-synthetic oils, long life, especially recommended for the lubrication of bearings and joints working under extreme loads and vibrations, even at very high temperatures and in very aggressive environments.

Recommended for manual greasing, as well as for automatic and single point lubrication installations recommending the use of consistent greases and available in softer consistencies (1 and 0) for use in automatic systems requiring more fluid greases.

SPECIFICATIONS:

NLGI classification 2*
DIN 51502 KP2R-30
ISO 6743/9 L-XCFIB-2

Working temperature from -30 °C to +180 °C



PACKAGING:
5, 20, 50 and 200 L



**EXTREME TEMPERATURES AND
LAMINAR LUBRICATION**

MAXIGRAS ANTISEIZE

Copper assembly paste with excellent adhesion and abrasion resistance. Recommended for use as an assembly lubricant for threaded joints and sliding surfaces of all types. For use in bearings subjected to high temperatures (>300 °C) where the use of conventional greases is not recommended. It is an essential requirement that the bearing works at very low speed (wheel bearings of trolley wheels in heat curing furnaces, paint booths, etc.). The greasing operation will be carried out by applying very small quantities of paste by brush, previously rolling the tracks and rolling elements with the same paste.

SPECIFICATIONS:

NLGI classification 1/2

DIN 51818

Working temperature from -20 °C to +1100 °C*

* Maximum working temperature in dry lubrication mode (solid additives).



PACKAGING:
1 kg



**VERY HIGH LOADS
ENVIRONMENTALLY FRIENDLY**

MAXIGRAS 3000 BBO

Special grease made of anhydrous calcium and vegetable ester base oils, extreme pressure, biodegradable, specially formulated for the general lubrication of bearings and bushings and all types of mechanisms working in areas with risk of environmental contamination, aquifers, water treatment plants, floodgates, etc. and available in softer consistencies (1 and 0) for use in automatic systems that require more fluid greases.

SPECIFICATIONS:

CNLGI classification: 2*

DIN 51502: KPE2G-20

ISO 6743/9: L-XBCEB-2

* Available in the following consistencies NLGI 0, 1 and 2

Working temperature from -20 °C to +100 °C (peaks up to +120 °C)



PACKAGING:
20 and 200 L



**MULTIFUNCTIONAL
FOOD GRADE**

MAXIGRAS 542*

Multifunctional Anhydrous Calcium white grease approved by NSF as H1 for use in the food industry, specially formulated for the lubrication of bearings of all types of mechanisms working under standard conditions in areas with risk of contamination to foodstuffs in their manufacturing process.

SPECIFICATIONS:

NLGI classification 2

DIN 51502 K2G-20 / M2G-20

ISO 6743/9 L-XBBIA-2

Working temperature from -20 to +100°C (peaks up to +120°C)



APPROVALS:

Approved by NSF: H1 and HALAL



PACKAGING:
400 g, 5, 20, 50
and 200 L



VERY HIGH LOADS AND TEMPERATURES
FOOD GRADE

MAXIGRAS 592*

MULTIFUNCTIONAL white Aluminium Complex EP grease, approved by NSF as H1 for use in the food industry, specially formulated for the lubrication of bearings of all types of mechanisms working in areas with risk of contamination to food in their manufacturing process even at high vibrations, pressures and very high temperatures.

SPECIFICATIONS:

NLGI classification 2
DIN 51502 KP2P-30
ISO 6743/9 L-XCEIB-2

Working temperature from -30 °C to +160 °C



APPROVALS:

Approved by NSF: H1 and HALAL



PACKAGING:
5, 20, 50 and 200 L



VERY HIGH LOADS AND TEMPERATURES
FOOD GRADE

MAXIGRAS 593*

White Aluminium Complex EP grease, with PTFE type solid additives, approved by NSF as H1 for use in the food industry. Grease with an excellent friction coefficient, for the lubrication of bearings of all types of mechanisms working in areas with risk of contamination of foodstuffs in the manufacturing process, even at high vibrations, pressures and very high temperatures.

SPECIFICATIONS:

NLGI classification 2
DIN 51502 KPF2P-30
ISO 6743/9 L-XCEIB-2

Working temperature from -30 °C to +160 °C



APPROVALS:

Approved by NSF: H1 and HALAL



PACKAGING:
spray 520 (400 ml e),
5, 20, 50 and 200 L

* MAXIGRAS 592, 593 and 542 are: "Lubricants susceptible of entering into accidental contact with food". They provide a high degree of adherence and protection against oxidation and corrosion. They are ideal for the lubrication of bearings, gears and machinery rails.



EXTREME TEMPERATURES AND
HIGH LOADS

MAXIGRAS 61

Extreme Pressure grease without dropping point and very high viscosity oil, especially suitable for greasing bearings and joints of slow-moving equipment operating continuously at temperatures between +120 °C and +180 °C.

SPECIFICATIONS:

NLGI classification 2
DIN 51502 KPF2R-10
ISO 6743/9 L-XAFEB-2

Working temperature from -10 °C to +180 °C (peaks up to +200 °C)*

* Maximum recommended temperature in continuous operation: +160 °C/+180 °C with continuous lubrication. Avoid direct contact with flame or source of ignition.



PACKAGING:
5, 20, 50 and 200 L



**EXTREME TEMPERATURES AND
HIGH LOADS**

MAXIGRAS 63

Graphitized black grease with no drop point, extreme pressure properties, and very high-viscosity oil. Ideal for lubricating bearings and joints in slow-moving equipment that operates continuously at temperatures between +120 °C and +180 °C. Particularly suited for main gears, double drum winches in mining, agglomerate plants, lift pulleys, and similar applications.

SPECIFICATIONS:

NLGI classification 2
DIN 51502 KP2R-10
ISO 6743/9 L-XAFEB-2

Working temperature from -10 °C to +180 °C (peaks up to +200 °C)*

* Maximum recommended temperature in continuous operation: +160 °C/+180 °C with continuous lubrication. Avoid direct contact with flame or source of ignition.



PACKAGING:
5, 20, 50 and 200 L



**EXTREME TEMPERATURES
AND HIGH LOADS
HARSH ENVIRONMENTS**

MAXIGRAS FHT-2

PTFE and perfluorinated oil (PFPE) grease with no drop point and extreme pressure properties, designed for long-life lubrication of bearings and mechanisms operating at extreme temperatures. This grease excels in the most aggressive chemical environments (acids, alkalis, solvents, etc.) and significantly extends greasing intervals under challenging conditions.

SPECIFICATIONS:

NLGI classification 2
DIN 51502 KPFK2U-30
ISO 6743/9 L-XCGIB-2
NLGI GC-LB

Working temperature from -30 °C to +250 °C (peaks up to 280 °C)



PACKAGING:
1 L



**EXTREME SPEEDS
LOW TEMPERATURES**

MAXIGRAS COMPLEX SP 46

Synthetic long-life Complex Lithium extreme pressure grease, especially for bearings and joints of mechanisms working at extreme speeds. Especially for use in small motors requiring low starting torque and/or for mechanisms operating at very low temperatures. Allows for widely spaced relubrication operations, even for life in sealed bearings.

SPECIFICATIONS:

NLGI classification 2
DIN 51502 KPHC2K-50
ISO 6743/9 L-XECEB-2

Working temperature from -50 °C to +120 °C (peaks up to +140 °C)

Speed factor: > 1.000.000 mm/min.



PACKAGING:
5, 20 and 50 L



LINEAR SLIDES

Linear slides are mechanical elements which enable a mobile part to move on a fixed rail. These mechanisms are generally subjected to high loads and speeds, great friction and considerable acceleration produced by changes in direction.

RECOMMENDATIONS:

These parts are lubricated with Extreme Pressure (EP) lubricants enhanced with unctuousness additives to guarantee the best possible adherence, in a manner which minimises friction and ensures precise and uniform movement with no stick-slip. The lubricant chosen should be highly resistant to washing and feature good anti-corrosion protection.



LUBRICATING WITH OIL



MULTIFUNCTIONAL
SLIDEWAY AND HYDRAULIC OILS
STANDARD CONDITIONS

FLOW G

VISCOSITIES ISO 32 TO 68 A 680

Range of lubricating oils formulated with highly refined mineral bases and anti-stick-slip additives. Their advanced formulation provides an extraordinary capacity to withstand heavy loads (EP properties), high resistance to water washout and fast demulsification to avoid tramp-oil effect in machinery and tools. Available in viscosities ISO 32 to ISO 1000. Excellent protection against heavy shock and/or sliding loads.

SPECIFICATIONS:

AFNOR: NF E 48-603 HM / NF E 60 200 HG
CINCINNATI MILACRON

DIN 51524/2 HLP
DIN 51517/3-CLP
ISO 3498 HG/G



PACKAGING:
20 L

LUBRICATING WITH GREASES



EXTREME LOADS AND PRESSURES
AEROSOL, MANUAL OR
CENTRALIZED LUBRICATION

MAXIGRAS 94 OGL

Adherent Aluminium Complex extreme pressure black fluid grease with very high content of high purity graphite and very high viscosity oil, especially recommended for guides under high loads, vibration and high temperatures.

SPECIFICATIONS:

NLGI classification 0/00*
DIN 51502 OGPF0/00G-20
Oil viscosity (cSt to 40 °C) > 1.500
* Available in spray

Working temperature from -20 °C to +120 °C (peaks up to +140 °C)



PACKAGING:
spray 520 (400 ml e)
5 and 20 L



SPRAY LUBRICATION
FOOD GRADE

MAXIGRAS 593

White Aluminium Complex EP grease, with PTFE type solid additives, approved by SF as H1 for use in the food industry. With an excellent friction coefficient, it favours the sliding of the guides even at very high pressures, vibrations and high temperatures in areas where there is a risk of contamination of foodstuffs in the manufacturing process.

SPECIFICATIONS:

NLGI classification 2
DIN 51502 KPF2P-30
ISO 6743/9 L-XCEIB-2

APPROVALS:

Approved by NSF: H1 and HALAL



PACKAGING:
spray 520 (400 ml e),
5, 20, 50 and 200 L



CENTRALIZED LUBRICATION
STANDARD CONDITIONS

MAXIGRAS C45 Li-EP00/000

Extreme pressure lithium fluid grease, especially for the lubrication of all types of guides operating at standard temperature conditions with greasing systems that require the use of fluid greases.

Available in harder consistencies for use in centralized systems requiring more consistent greases.

SPECIFICATIONS:

NLGI classification 00/000*

DIN 51502 OGPFO0/000G-30

ISO 6743/9 L-XCBEB-00/000

* Available in the following consistencies NLGI 00/000, 0, 1, 2 and 3

Working temperature from -30 °C to +100 °C (peaks up to +120 °C)



PACKAGING:
5, 20, 50 and 200 L



STANDARD CONDITIONS
AND HIGH LOADS

MAXIGRAS 46/2

Multifunctional lithium extreme pressure black grease with molybdenum disulphide for the greasing of all types of guides and slides operating under standard temperature conditions and greasing systems requiring the use of very low friction, consistent greases under high loads.

SPECIFICATIONS:

NLGI classification 2*

DIN 51502 KPF2K-20

ISO 6743/9 L-XBCEB-2

* Available in the following consistencies NLGI 2 and 3

Working temperature from -20 °C to +120 °C (peaks up to +140 °C)



PACKAGING:
400 g, 5, 20, 50
and 200 L



EXTREME LOADS AND
TEMPERATURES, CONSISTENT
GREASE

MAXIGRAS COMPLEX M

Black Lithium Complex extreme pressure grease with solid lubricants and high viscosity oil specially designed for the lubrication of guides and metal-to-metal contact surfaces at very high temperatures requiring the use of consistent greases with very low friction and extreme loads.

SPECIFICATIONS:

NLGI classification 2/3

DIN 51502 KPF2-20 / KPF3P-20

ISO 6743/9 L-XBEHB-2/3

Oil viscosity: (cSt to 40 °C) >320

Working temperature from -20 °C to +160 °C



PACKAGING:
5, 20, 50 and 200 L



ROLLING CONTACT GUIDES (BALL SCREWS)

Rolling contact guides are linear guides where movement and contact between the fixed and moving elements are managed through a rolling system. This reduces the contact surface, resulting in faster, more precise, and smoother movements compared to sliding guides.

RECOMMENDATIONS:

Selecting the ideal lubricant for rolling contact guides depends on screw speed and load conditions. For high-speed screws, low-viscosity EP oils are typically used, as lower viscosity enhances heat dissipation and reduces molecular friction. Conversely, EP greases are commonly employed for slow-moving screws.



LUBRICATING WITH OIL



STANDARD CONDITIONS

FLOW P.O.

VISCOSITIES ISO 100 TO 680

Range of oils of different viscosity grades formulated with highly refined mineral bases and latest generation ash-free additives. Their advanced formulation provides an extraordinary capacity to withstand heavy loads (EP properties).

Recommended for gear systems, gearboxes, plain bearings, guides and bearings where a lubricant with EP properties. Excellent protection against heavy shock and/or sliding loads.

SPECIFICATIONS:

AGMA 9005-D94 EP

DAVID BROWN S1.53.101

DIN 51517 Part 3 CLP

FIVES CINCINNATI (depending on viscosity)

ISO 12925-1 and 6743/6 CKC, CKD

US STEEL 224

PACKAGING:
20, 200 and 1000 L

HIGH SPEED

MAXIFLUID VG

VISCOSITIES ISO 2 TO ISO 10

Range of high fluidity and low viscosity lubricating oils of superior quality, with anti-wear (AW) additives, specially formulated to work in very high speed and high precision systems.

SPECIFICATIONS:

AFNOR NFE48-603 HM

DIN 51524/2 HLP

ISO 6743/4 HM, ISO 11158 HM

PACKAGING:
20 L

LUBRICATING WITH GREASES

CENTRALIZED LUBRICATION
STANDARD CONDITIONS**MAXIGRAS C45 Li-EP00/000**

Lithium extreme pressure fluid grease for the lubrication of all types of guides and ball screws operating under standard temperature conditions and greasing systems requiring the use of fluid greases.

Available in harder consistencies for use in centralized systems requiring more consistent greases.

SPECIFICATIONS:

NLGI classification 00/000*

DIN 51502 OGPFO0/000G-30

ISO 6743/9 L-XCBEB-00/000

* Available in the following consistencies NLGI 00/000, 0, 1, 2 and 3

Working temperature from -30 °C to +100 °C (peaks up to +120 °C)

PACKAGING:
5, 20, 50 and 200 L



**HIGH SPEEDS
LOW TEMPERATURES
LOW START-UP TORQUE**

MAXIGRAS COMPLEX SP 46

Synthetic long-life Lithium Complex extreme pressure synthetic grease, especially for the lubrication of precision ball screws and guides working at extreme speeds. Excellent starting torque and dosing properties for automatic lubrication systems using consistent greases.

SPECIFICATIONS:

NLGI classification 2
DIN 51502 KPHC2K-50
ISO 6743/9 L-XECEB-2

Working temperature from -50 °C to +120 °C (peaks up to +140 °C).
Speed factor: > 1.000.000 mm/min.



PACKAGING:
5, 20 and 50 L



**VERY HIGH LOADS
AND TEMPERATURES
FOOD GRADE**

MAXIGRAS 592

MULTIFUNCTIONAL white Aluminium Complex EP grease, approved by NSF as H1 for use in the food industry, specially formulated for general lubrication of guides and ball screws working in areas with risk of contamination to foodstuffs in their manufacturing process.

SPECIFICATIONS:

NLGI classification 2
DIN 51502 KP2N-30
ISO 6743/9 L-XCDIB-2

APPROVALS:

Approved by NSF: H1 and HALAL

Working temperature from -30 °C to +160 °C



PACKAGING:
5, 20, 50 and 200 L



**HIGH TEMPERATURES, HIGH LOADS
AND PRESENCE OF WATER AND/OR
WATER STEAM**

MAXIGRAS 102/2

Calcium Sulphonate Complex extreme pressure grease formulated with high viscosity semi-synthetic oils, especially recommended for the lubrication of guides and ball screws working in very high temperature conditions, as well as under extreme loads and vibrations and harsh environments. Available in softer consistencies for use in systems requiring more fluid greases.

SPECIFICATIONS:

NLGI classification 2*
DIN 51502 KP2R-30
ISO 6743/9 L-XCFIB-2
Oil viscosity: (cSt to 40 °C) >500

* Available in the following consistencies NLGI 0, 1 and 2

Working temperature from -30 °C to +180 °C



PACKAGING:
5, 20, 50 and 200 L



STEEL WIRE ROPES

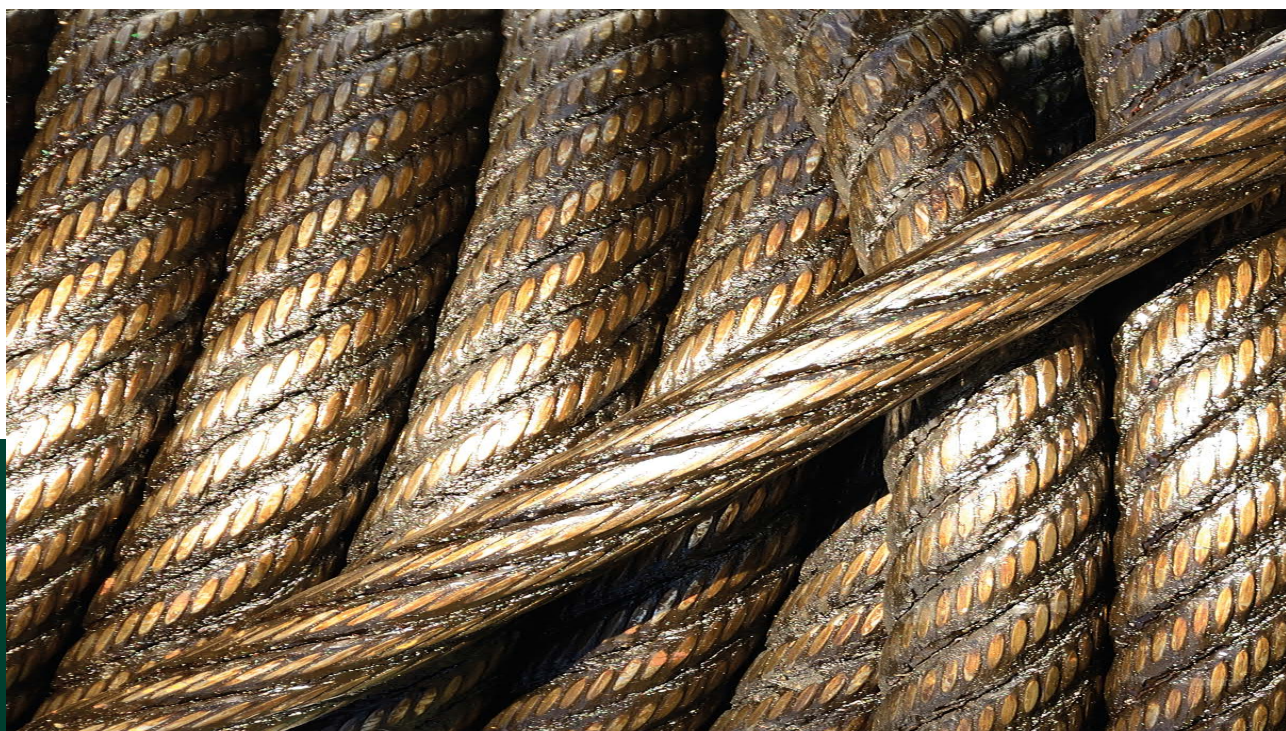
Steel wire ropes are flexible elements used to raise loads, made up of a series of steel wires comprising a single working body. These wires are generally rolled in a helicoidal manner to form so-called spiral or strand cables, which in turn may be rolled helicoidally around a core to form multiple strand cables, also known as rudder cables in nautical circles. The strands may also be joined alongside each other to form flat cables.

RECOMMENDATIONS:

Cables require lubrication with adherent lubricants that offer excellent anti-corrosion properties, deep penetration, and high load capacity. The lubricant must penetrate to the core and withstand the extreme pressure caused by friction between the wires themselves, as well as between the strands, core, pulleys, and guides during movement.

These characteristics are particularly important when lubricating anti-twist steel cables, especially in situations where the load height is significant, such as in cranes used in ports, shipyards, and open-pit mines.

All Olipes lubricants for this use are asphalt and solvent-free.



LUBRICATING WITH GREASES



MAXIGRAS 49 WR

Black pseudoplastic calcium sulphonate complex extreme pressure lubricant, with a high content of high purity graphite and very high viscosity oil.

Maximum adhesion and corrosion protection for outdoor cables in harsh environments such as marine ports and mining.



GEARS AND WIRE ROPES FOR
CRANES AND LIFTS

SPECIFICATIONS:

NLGI classification 1
DIN 51502 OGP1N-20
ISO 6743/9 L-XBDIB-1
Oil viscosity: (cSt to 40 °C) >680
Working temperature from -20 °C to +150 °C



PACKAGING:
5, 20, 50 and 200 L



MAXIGRAS 94 OGL

Adherent Aluminium Complex extreme pressure black fluid grease with a very high content of high purity graphite and very high viscosity oil, especially recommended for the greasing and corrosion protection of outdoor cables in harsh environments such as in marine ports and mining.



SMALL OR DIFFICULT-TO-ACCESS
UNDER HIGH LOADS
LIFTING SYSTEMS

SPECIFICATIONS:

NLGI classification 0/00
DIN 51502 OGPFO/00G-20
Oil viscosity: (cSt to 40 °C) >1.500
* Available in spray

Working temperature from -20 °C to +120 °C
(peaks up to +140 °C)



PACKAGING:
spray 520 (400 ml e)
5 and 20 L



SMALL OR DIFFICULT-TO-ACCESS
LIFTING SYSTEMS
FOOD GRADE

MAXIGRAS 593

White Aluminium Complex EP grease, with PTFE type solid additives, approved by NSF as H1 for use in the food industry. Thanks to the PTFE, it has an excellent friction coefficient that favours protection against corrosion and wear of bare wires in all types of aggressive conditions, especially in areas with risk of contamination of foodstuffs in the manufacturing process.

SPECIFICATIONS:

NLGI classification 2
DIN 51502 KPF2P-30
ISO 6743/9 L-XCEIB-2

Working temperature from -30 °C to +160 °C



APPROVALS:

Approved by NSF: H1 and HALAL



PACKAGING:
spray 520 (400 ml e),
5, 20, 50 and 200 L



SMALL OR DIFFICULT-TO-ACCESS
LIFTING SYSTEMS
MULTIFUNCTIONAL

MAXIGRAS CADENAS

SPRAY grease with excellent lubricating power with EP and PTFE additives. Excellent penetration and adherence. Anti-wear and sealing effect properties. Withstands high dynamic and sliding loads.

PROPERTIES / APPLICATIONS:

- Eliminates annoying noises from car door hinges.
- Softens the functioning of the central locking.
- Thoroughly lubricates the brake and clutch cable casings.
- Lubricates motorcycle chains.
- Prolongs the useful life of lubricated elements.

Working temperature from -35 °C to +150 °C



PACKAGING:
spray 520 (400 ml e)



PLAIN BEARINGS

HIGH-SPEED HEADSTOCKS

Plain bearing (bushing):

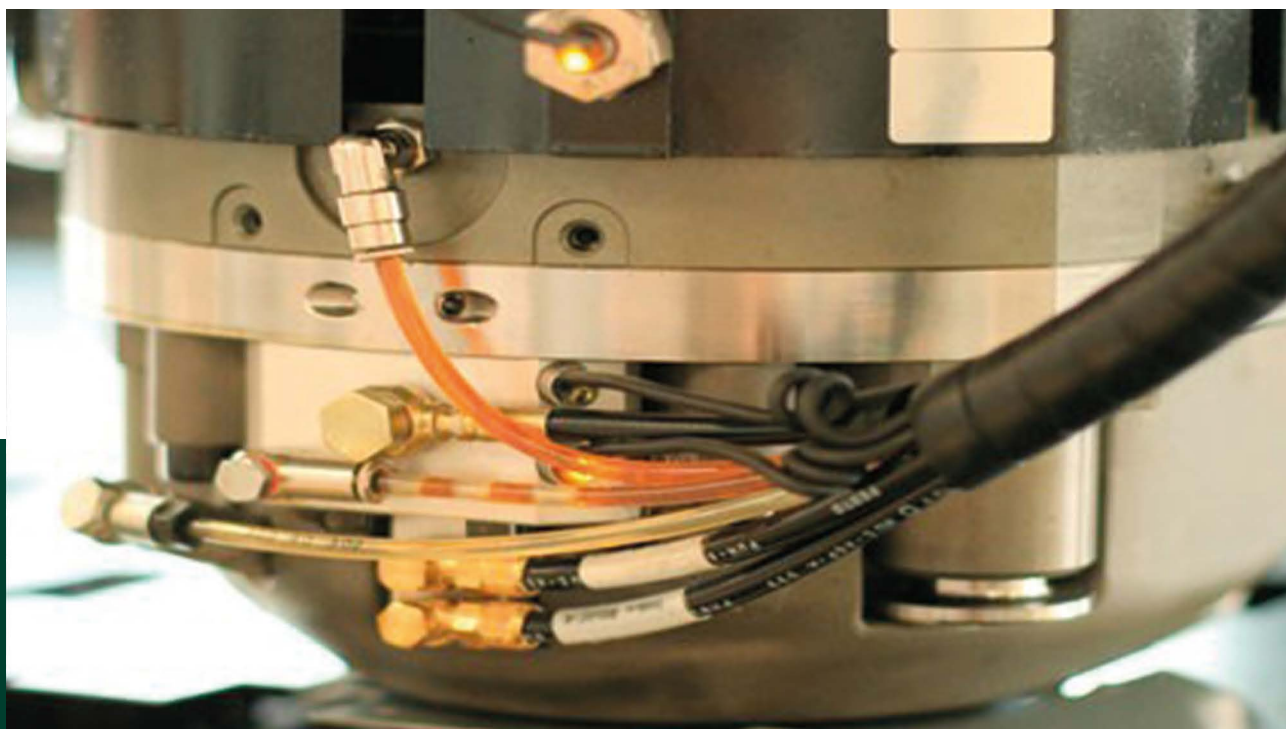
An element designed to reduce shaft friction during movement by using smooth sleeves that provide support, creating sliding friction.

High-speed headstock:

A mechanical element composed of watertight bearings, bushings and gears in sealed cases which rotate at extremely high speeds. Generally used in machine tools, these parts require a high-speed factor grease (speed factor > 1,000,000) or low-viscosity oils with a high load capacity and a high level of purity (Classification ISO 4406: recommended: 14/12/9 or NAS 1638: 3).

RECOMMENDATIONS:

In the event the bushings are lubricated with grease, the recommendations for the lubrication of bearings and pulleys should be followed. If the bushings are lubricated with oil the recommendations for the lubrication of gearboxes should be followed, with the exception of bushings operating at extreme revolutions and in high-speed headstocks, where the recommendations set forth below should be followed:



LUBRICATING WITH OILS



HIGH SPEED

MAXIFLUID VG VISCOSITIES ISO 2 TO ISO 10

Range of superior quality, high fluidity and low viscosity lubricating oils, manufactured with highly refined mineral bases with a high degree of cleanliness and latest generation anti-wear (AW) additives specially formulated to work in very high speed and high precision systems.

SPECIFICATIONS:

AFNOR NFE48-603 HM
DIN 51524/2 HLP
ISO 6743/4 HM, ISO 11158 HM



PACKAGING:
20 L

LUBRICATING WITH GREASES



HIGH SPEEDS
LOW TEMPERATURES
LOW START-UP TORQUE

MAXIGRAS COMPLEX SP 46

Synthetic long-life Complex Lithium extreme pressure synthetic grease with very low starting torque, recommended for the lubrication of precision bevel gears, precision bearings and generally for machining centre heads working at extreme speeds under conditions of high thermal stress.

SPECIFICATIONS:

NLGI classification 2
DIN 51502 KPHC2K-50
ISO 6743/9 L-XECEB-2

Working temperature from -50 °C to +120 °C (peaks up to +140 °C)

Speed factor: > 1.000.000 mm/min.



PACKAGING:
5, 20 and 50 L



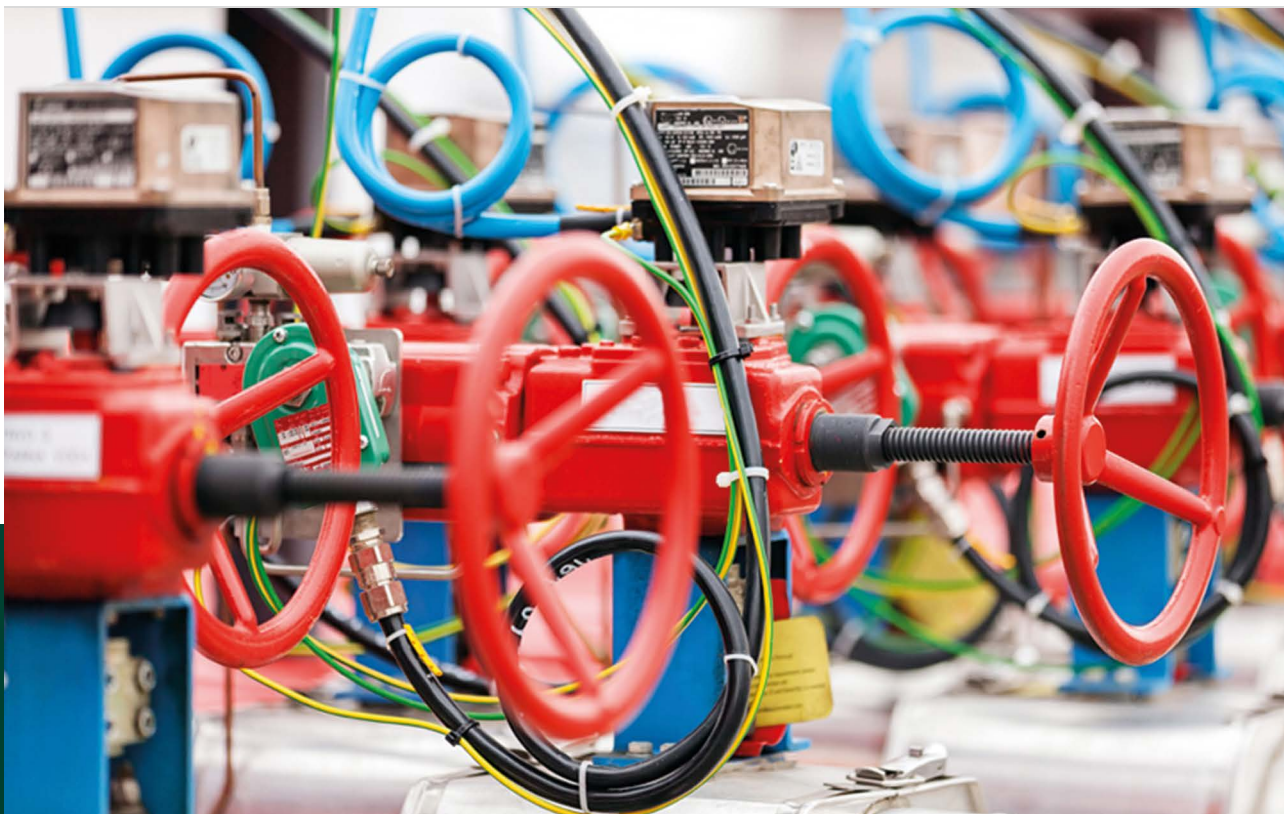
SCREW VALVES

For the correct lubrication of screw valves we recommend the use of EP consistent greases with or without solid additives, capable of withstanding the operating temperature of the valve and which are compatible with the fluid pumped through the same (water, acids, alkalis, oils...).

These valves typically feature a small dispenser with one or more nozzles to deliver lubricant. They are designed to minimize friction, facilitate smooth opening and closing, prevent wear, and protect against corrosion.

RECOMMENDATIONS:

Based on the operating conditions and the fluid being pumped through the valve, OLIPES recommends using the following greases:





**STANDARD CONDITIONS
AND HIGH LOADS**

MAXIGRAS 46/2

Multifunctional lithium extreme pressure black grease with molybdenum disulphide for the lubrication of valve spindles in standard temperature conditions and lubrication systems requiring the use of consistent, very low friction greases.

SPECIFICATIONS:

NLGI classification 2*

DIN 51502 KPF2K-20

ISO 6743/9 L-XBCEB-2

* Available in the following consistencies NLGI 2 and 3

Working temperature from -20 °C to +120 °C (peaks up to +140 °C)



PACKAGING:
400 g, 5, 20, 50
and 200 L



**HIGH TEMPERATURES
AND HIGH LOADS**

MAXIGRAS COMPLEX M

Complex Lithium extreme pressure black grease with solid lubricants and high viscosity oil specially designed for the lubrication of valve spindles in high temperature conditions and lubrication systems requiring the use of very low friction, consistent greases under high loads.

SPECIFICATIONS:

NLGI classification 2/3

DIN 51502 KPF2-20 / KPF3P-20

ISO 6743/9 L-XBEHB-2/3

Oil viscosity: (cSt to 40 °C) >320

Working temperature from -20 °C to +160 °C



PACKAGING:
5, 20, 50 and 200 L



**HIGH TEMPERATURES, HIGH LOADS
AND PRESENCE OF WATER AND/OR
WATER STEAM**

MAXIGRAS 102/2

Calcium Sulphonate Complex extreme pressure grease formulated with high viscosity semi-synthetic oils, especially recommended for the greasing of valve spindles under high temperature conditions and greasing systems that require the use of very low friction consistent greases under high loads. Especially for extremely humid and corrosive environments, preventing seizure over time.

SPECIFICATIONS:

NLGI classification 2

DIN 51502 KP2R-30

ISO 6743/9 L-XCFIB-2

Oil viscosity: (cSt to 40 °C) >320

Working temperature from -20 °C to +180 °C



PACKAGING:
5, 20, 50 and 200 L



MAXIGRAS ANTISEIZE

Copper assembly paste with excellent adhesion and abrasion resistance. Recommended for use as an assembly lubricant for threaded joints and sliding surfaces of all types. Effectively combats wear of mating parts and seizure of metal surfaces, even at high temperatures and in corrosive media. Its extremely low coefficient of friction allows easy disassembly of lubricated parts.

SPECIFICATIONS:

NLGI classification 1/2

DIN 51818

Working temperature from -20 °C to +1100 °C*

* Maximum working temperature in dry lubrication mode (solid additives).



PACKAGING:
1 kg

ANTI-SEIZE PASTE
EXTREME TEMPERATURES
HARSH ENVIRONMENTS



Together, on the road,
we are...

UN
STOP
PA
BLES



MAINTENANCE



FIND OUT MORE AT
olipes.com/maintenance



ONE SHOT

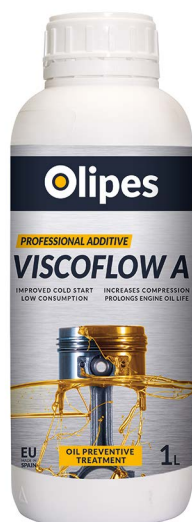
One Shot is a multifunctional diesel treatment that minimises the problems caused by the Biodiesel currently incorporated into “all” diesel fuels marketed in the European Union and due to the water present in tanks due to the effect of condensation.

PROPERTIES / APPLICATIONS:

- Cleans, lubricates and protects the injectors and the pump.
- Keeps the combustion circuit clean avoiding the premature clogging of filters.
- Increases the Cetane index.
- Improves combustion, reducing fuel consumption.
- Reduces the formation of exhaust fumes and soot.
- Disperses and absorbs condensation water.
- Achieves a decrease in the filterability limit temperature.
- Allows faster preheating and makes starting easier in winter.
- Protects the circuit and its mechanisms from rust and corrosion.
- Avoids and prevents: unstable idling, engine banging, etc.



PACKAGING:
100 ml and 1 L



VISCOFLOW A

Compression-enhancing additive for engine oil. Its carefully selected additives and its honey-like appearance provide new properties to the lubricant, improving compression, reducing engine wear and oil consumption.

Also suitable for manual and differential gearboxes.

PROPERTIES / APPLICATIONS:

- Reduces engine oil consumption.
- Improves engine compression and increases power.
- Prevents blue smoke.
- Protects cylinders, pistons, bushings, bearings and gears.
- Extends the life of the lubricated components and that of the lubricating oil itself.
- Protects during long periods of non-use.
- Facilitates starting in cold weather.



PACKAGING:
1 and 5 L



MULTIFLOW AFLOJATODO

It is the most powerful multipurpose spray loosener on the market and the one preferred by professionals, with more than 2,000 applications and uses.

PROPERTIES / APPLICATIONS:

- Its penetrating power acts as a loosening device, unlocking seized metal parts, locks, hinges, etc.
- Dissolves rust quickly and protects all types of metal parts and electrical equipment from corrosion.
- Prevents the sulphation of battery terminals and low-voltage electrical connections, thanks to the water-repellent film that forms after application, its dielectric capacity and its protective action.
- Unlocks locks and prevents freezing in winter.



Exceeds the corrosion protection requirements according to the INTA 150492 standard in sea fog and the INTA 150514A standard in the humidity chamber.

PACKAGING:
spray 520 (400 ml e)



MAXIGRAS CADENAS

Maxigras Cadenas is a Teflon grease (with PTFE) in a spray, light in colour, specially formulated for the lubrication of chains that are subject to great stresses and adverse weather conditions (water, snow, dust, mud, etc.).

PROPERTIES / APPLICATIONS:

- Eliminates annoying noises from car door hinges.
- Thoroughly lubricates the brake and clutch cable casings.
- Softens the functioning of the central locking.
- Lubricates motorcycle chains.
- Prolongs the useful life of lubricated elements.



PACKAGING:
spray 520 (400 ml e)



FLOW BRILL

Flow Brill is a non-greasy-looking dashboard cleaner-brightener in a spray to prevent dust from sticking to the dashboard and prevent glare and sunlight reflections.

PROPERTIES / APPLICATIONS:

- Cleans, renews and polishes interiors.
- Revitalises damaged plastic materials.
- Prevents dust from sticking to the surface.
- Repairs surface scratches and removes oil, grease and tar stains without damaging the paint.
- Pleasant and perfumed odour.



PACKAGING:
spray 520 (400 ml e)

Choosing the right grease for any element subjected to friction in an equipment guarantees its proper functioning, reducing wear and tear and avoiding premature faults.

Olipes offers a wide range of greases-lubricants for vehicle and workshop maintenance. Visit our website olipes.com for more information or consult our [Technical Assistance Service](#), who will advise you with no obligation.

On this catalogue we indicate the greases most demanded by OEMs and maintenance and repair workshops, for proper vehicle maintenance, based on their application.





STANDARD CONDITIONS

MAXIGRAS C45 LI-EP/2

Lito EP multifunctional AMBER grease. Bearings, joints, interconnections, guides, etc. In standard temperature conditions.

SPECIFICATIONS:

NLGI classification 2*

DIN 51502 KP2K-30

ISO 6743/9 L-XCCEB-2

* Available in the following consistencies NLGI 2 and 3

Working temperature from -30 °C to +120 °C



PACKAGING:
400 g, 1 kg, 5, 20,
50 and 200 L

HARSH ENVIRONMENTS AND
HIGH TEMPERATURES

MAXIGRAS COMPLEX Li-EP

Lito EP BLUE Complex high temperature grease. Multifunctional, especially suitable for bearings and joints. Classified by ASTM D-4950 as GC-LB for wheel hubs.

SPECIFICATIONS:

NLGI classification 2/3

DIN 51502 KP2-30 / KP3P-30

ISO 6743/9 L-X-CEHB-2/3

NLGI GC-LB

JOHN DEERE J13C/J25C

Working temperature from -30 °C to +160 °C (peaks up to +180 °C)



PACKAGING:
5, 20, 50 and 200 L

ANTI-SEIZE PASTE
EXTREME TEMPERATURES
HARSH ENVIRONMENTS

MAXIGRAS ANTISEIZE

Anti-seize copper paste for threaded joints and brake callipers. Excellent electrical and thermal conductivity. Withstands up to 1,100 °C in dry conditions.

SPECIFICATIONS:

NLGI classification 1/2

DIN 51818

Working temperature from -20 °C to +1100 °C*

* Maximum working temperature in dry lubrication mode (solid additives).



PACKAGING:
1 kg

MASTERCLEAN CAR BBO

Concentrated biodegradable bodywork-cleaning shampoo, for use diluted in water. Recommended for the cleaning and degreasing of bodywork, truck tarpaulins and industrial machinery, at car washes, with high pressure cleaning machines and steam cleaning machines.

PROPERTIES / APPLICATIONS:

- Quickly removes traces of grease and residue, without damaging glass, enamels or paints.
- Easily removes the most stubborn dirt: insects, bird excrement, etc.
- Fully free of petroleum-bearing solvents and hydrocarbons.
- Its environmentally friendly formula allows it to be used on sensitive outdoor areas.



PACKAGING:
20 and 1000 L



MASTERCLEAN MOTOR BBO

Concentrated biodegradable engine cleaner. Formulated with alkaline liquid detergent, easily diluted in cold or hot water and quick acting, for use diluted in water. Completely free of petroleum-bearing solvents or hydrocarbons.

PROPERTIES / APPLICATIONS:

- Energetic action and high detergent and degreasing power for a fast and efficient cleaning work.
- Diluted in the recommended proportion for each application, it does not damage paints, chrome, rubber, plastics or metals.
- 100 % effective results and environmentally friendly.



PACKAGING:
20 and 1000 L



MASTERCLEAN BRIS

Powerful all-weather direct-use windscreen cleaner. Recommended for both personal and professional use. Prevents insects and dirt on the windscreen, improving road visibility and safety.

PROPERTIES / APPLICATIONS:

- Fully soluble in both cold and hot water.
- Deeply and quickly removes dirt and insects from the windscreen, thanks to its active foam.
- Does not damage paint, chrome, rubbers or cleaning brushes.
- Start of crystallisation at -6 °C.

Compliant with (EU) REGULATION 2018/589, does not contain methanol.



PACKAGING:
1, 5 and 1000 L



MASTERCLEAN DES

Líquido desengrasante universal, de uso puro, para la limpieza de todo tipo de elementos mecánicos en máquinas lava-piezas de talleres, incluidas culatas de aluminio, radiadores y motores de arranque.

PROPERTIES / APPLICATIONS:

- Formulated with carefully selected solvents. Free from halogenated solvents, polynuclear aromatic compounds and PCBs.
- Compatible with most paints, plastics and rubber gaskets in industrial part washing machines for workshops.
- Good evaporation rate, insoluble in water and a mild odour.



PACKAGING:
20 and 200 L

ABSORBENTE ACEITE

Industrial absorbent for chemical spills, manufactured from fully inert natural inorganic components, guaranteeing maximum safety in the chemical products disposal process.

PROPERTIES / APPLICATIONS:

- Effectively absorbs industrial oil spills, solvents, hydrocarbons, plant-based oils, grease stains, coolants and other chemicals.
- Chemically inert, non-flammable, and harmless to people and animals, it is the ideal absorbent for workshops and transport fleets.



PACKAGING:
20 kg



BOBINA CELULOSA INDUSTRIAL

Professional pack of 2 blue coloured industrial cellulose paper rolls. Its more than 300 metres of laminated soft (padded) paper, with pre-cut lines and over 3 kilograms of weight per roll, facilitate the work of cleaning and drying hands, parts and surfaces in the workshop and in the vehicle.



PACKAGING:
2 units



BOBINA CELULOSA MINI BLANCA

Pack of 6 double-layer white cellulose paper rolls. More than 120 metres of double-layer embossed paper, with pre-cut lines and 1 kilogram of weight per roll, for the most demanding when it comes to absorbing and drying oil, grease and general dirt stains at workshop, petrol stations, car washes, etc.



PACKAGING:
6 units



MAXICER PREMIUM 10/20

Mineral lubricating oil for rotary, screw (ISO 46), air-cooled or water-cooled air compressors, allowing oil change intervals from 2,000 to 4,000 hours, depending on the compressor model and operating conditions.

SPECIFICATIONS:

Compressors
DIN 51506: VCL and VDL
ISO 6521-1: DAB and DAH; ISO 6743/3: DAB and DAH

Hydraulic systems
DIN 51524/2: HLP
ISO 11158: HM; ISO 6743/4: HM



PACKAGING:
5 and 200 L



MAXICER PREMIUM 30/40

Mineral lubricating oil for reciprocating or piston air compressors, single-stage (2-3 bar) or multi-stage (up to 8 bar), air or water-cooled air compressors and vacuum pumps requiring a lubricant with SAE 30/40 or ISO 100 viscosity in Premium quality.

SPECIFICATIONS:

Compressors
DIN 51506: VCL and VDL
ISO 6521-1: DAB and DAH; ISO 6743/3: DAB and DAH

Hydraulic systems
DIN 51524/2: HLP
ISO 11158: HM; ISO 6743/4: HM



PACKAGING:
5 and 200 L

ABOUT OLIPES

Olipes is a lubricant manufacturer that offers advice and a comprehensive range of products and services to professionals who market, distribute and use them. Our products and services are sustainable in the medium and long-term and have the highest quality guarantee.

At Olipes, we are committed to researching and developing new products that are more advanced, efficient and greener, always offering cutting-edge technology and first-rate qualities. With us, you will always have a committed, flexible and motivated team that is constantly trained and highly qualified to permanently be at your service and at the service of your customers.

As a prescriber of Olipes, you will always have comprehensive advice on the use and marketing of lubricants. Our goal is to provide you with constant support for your professional career.

Olipes offers you the scientific, technical and human resources necessary to provide tailor-made solutions.

We want strong long-term relationships based on trust. If this is your way of viewing business, count on us as a lubrication technology partner.

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