



Möllenberg & Sonntag

your specialist for lubricants for over 75 years.

Over the course of decades, a trading company became a manufacturer of industrial lubricants. Special lubricants were increasingly developed, also customer-specific.

At the beginning of the 1960s, the first steps were taken towards research and development of synthetic lubricants, from which the Molsyn range, among others, emerged as a top quality product.

Our lubricants have been continuously developed and are now exported worldwide.





Special solutions

We are happy to manufacture lubricants according to your specifications or requirements.

Our special service for you:

You often need lubricants that deviate from standards, whether for metalworking, lubricant for machines or as gear oil. We are happy to accommodate your special needs and manufacture lubricants especially for you. In this way, the best application properties through individual solutions are guaranteed.

Do not hesitate to contact us



INDUSTRIAL LUBRICANT GREASES

- **Moba GS 500-0**

Aluminum-complex Lubricating Grease based on mineral oil, contains solid lubricants. Suitable for automatic spray lubrication of high pressure and temperature loaded toothed wheels, girth gear drives, open gears, gear rings, toothed racks and pinions of any kind. It also suits for lubrication of rotary furnaces or similar hot lubricating points even under dusty and wet conditions.

Base oil viscosity 500 mm²/s at 40°C; High thermal pressure resistance

Designation OGPFO5-20; NLGI- Grade 0; -20°C to +200°C

- **Moba GS 1000-0**

Aluminum-complex Lubricating Grease based on mineral oil, contains graphite. Suitable for automatic spray lubrication of high pressure and temperature loaded toothed wheels, girth gear drives, open gears, gear rings, toothed racks and pinions of any kind. It also suits for lubrication of rotary furnaces or similar hot lubricating points even under dusty and wet conditions.

Base oil viscosity 1000 mm²/s at 40°C; High thermal pressure resistance

Designation OGPFO5-20; NLGI- Grade 0; -20°C to +200°C

- **Moba GS 2500-0**

Aluminum-complex Lubricating Grease based on high performance semisynthetic oils, contains graphite. Suitable for automatic spray lubrication of high pressure and temperature loaded toothed wheels, girth gear drives, open gears, gear rings, toothed racks and pinions of any kind. It also suits for lubrication of rotary furnaces or similar hot lubricating points even under dusty and wet conditions.

Base oil viscosity 2500 mm²/s at 40°C; Very high thermal pressure resistance

Designation OGPFO5-20; NLGI- Grade 0; -20°C to +200°C

Liquid grease

- **Moba Li Flow 00**

lithium saponified flow grease, based on synthetic fluids. Suitable for central lubricating installations of utility vehicles as well as for outside working units. Lithium Soap

Designation GP 00/000 K-50; NLGI-Grade: 00/000; -50 to +120°C

- **Moba HT FL 00**

Lithium-complex Grease based on semisynthetic fluids. High-temperature liquid grease for gearboxes, spur gears, bevel and worm gears

Designation GP00N-30; NLGI-Grade 00; -30°C to +150°C

High Temperature Greases

- **Moba HT EP2**

Lithium complex saponified High Temperature Grease based on mineral oil with EP properties. Suitable for lubrication of roller and friction bearings under extreme pressure load.

Designation KP2P-30 NLGI-Grade 2
temperature -30°C to +150°C

- **Moba HT B2**

Bentonite grease based on mineral oil. Suitable Hot-bearing grease for the lubrication of rolling and sliding bearings at high bearing temperatures as in rotary furnaces, sintering plants and charging crane at steel works

Designation K2P-10; NLGI-Grade 2; -15°C to +150°C

- **Moba PH 1-2**

Polyurea High Temperature EP-grease based on a highly viscous mineral oil. Suitable for lubrication of rolling and plain bearings subjected to high pressure and shock loads at high bearing temperatures. Developed for high-temperature applications exposed to extreme environmental conditions

Designation KP1-2R-30; NLGI- Grade 1- 2; -30°C to +180°C

- **Moba PH HC 1-2**

Polyurea High temperature Grease based synthetic oil. Suitable for long-term lubrication of rolling and plain bearings, for aggressive environmental influences, for the lubrication of ejector pins in plastic injection molding tools

designation KPHC1R-30; NLGI-Grade 1-2; -30°C to +180°C

- **Moba PH HC 2-3**

Polyurea High Temperature EP-Grease based on highly viscous, heat-resistant synthetic oil. Suitable for lubrication of roller and friction bearings under extreme pressure load and also by shocks and vibrations under high bearing temperatures

Designation KPHC2-3R-40; NLGI-Grade 2-3; -40°C +190°C

- **Moba HT A2**

Aluminum-complex Grease based on mineral oil. Suitable for Lubrication of roller and friction bearings at high temperatures and high loads, even under dusty and humid conditions

Designation KP2P-20; NLGI-Grade 2; -20°C to +150°C

- **Moba HT AG2**

Aluminum-complex grease based on mineral oil, contains 3%graphite. Suitable for bearing lubrication in continuous furnaces (recommended by LOI GmbH), heavy duty open gearwheels

Designation KPF2P-20; NLGI-Grade 2; -20 to +150°C

INDUSTRIAL LUBRICANT GREASES

Biodegradable

- **Moba BioCa 2**
Special Calcium Soap Grease based on biodegradable native ester. Suitable for lubrication of roller and friction bearings
Designation KE2E-20; NLGI-Grade 2; -20°C to +80°C
- **Moba BioLi EP2**
Lithium Soap Grease based on biodegradable synthetic ester. For rolling and plain bearings lubrication under high and intermittent loads
Designation KPFE2K-30; NLGI-Grade 2; - 35°C to +130°C

Long Life / Multipurpose

- **Moba LZ M2**
Lithium Soap Long Life Grease based on semi-synthetic oils with MoS₂. Suitable for lubrication of bearings and guide surfaces of trucks, industrial and construction machines, even under rough operating conditions
Designation KPF2N-30; NLGI-Grade 2; -30°C to +140°C
- **Moba MZ 2**
Lithium Soap Multipurpose grease based on mineral oil. Suitable for lubrication of roller and friction bearings, as multipurpose grease for cars, construction machines and agricultural equipment even under dusty and wet working conditions.
Designation K2K-30; NLGI Grade 2; -30°C to +120°C
- **Moba MZ EP2**
Lithium soap Multipurpose Grease based on mineral oil with high load carrying capacity. Suitable for lubrication of roller and friction bearings under extreme pressure load and also by shocks and vibrations.
Designation KP2K-30; NLGI-Grade 2; -30°C to +120°C
- **Moba MZ EP3**
Lithium Soap Grease based on mineral oil. Suitable as Multipurpose grease for cars, trucks industrial and construction machines, agricultural equipment
Designation KP3K-20; NLGI Grade 3; -25°C to +120°C
- **Moba MZ 3**
Calcium soaped Grease based on mineral oil. Suitable for lubrication of low-load rolling and plain bearings
Designation M 3 C-30; NLGI-Grade 3; -30°C to +60°C

Adhesive lubricants

Zählit Series

Black, water-and pressure-resistant adhesive lubricants

Special petroleum fractions (containing bitumen) for lubrication and preservation of track slats, ropes and chains. Suitable for lubrication for open and half- open gearwheels, bevel gears, worms, thrust rollers with dipping bath, bevel gear drive impulses of the rolling ways and chill beds, ropes and chains, gearwheels and of the cranes and lifts, bearing of slag mills, lubrication and preservation of trace laths and ropes.

- **Zählit LM**
Release for forging hammer of **Beche & Grohs**
Viscosity 50°C: 217 mm²/s; Designation DIN 51513: BA
- **Zählit LM-35**
Viscosity 50°C: 385 mm²/s; Designation DIN 51513: BA
- **Zählit 4**
Sharing for the lubrication of **Lasco** forging- and sledge hammers
Viscosity 50°C: 352 mm²/s; Designation DIN 51513: BA
- **Zählit O/F**
Viscosity 50°C: 1.000 mm²/s; Designation DIN 51 513: BB
- **Zählit D**
Viscosity 50°C: 16.000 mm²/s; Designation DIN 51 513: BC

Geka H 1300

Ageing-resistant EP special oil based on a highly viscous mineral oil. Has excellent adhesion and anticorrosion properties.

Guideway oil with special adhesion additive (lubrication saw frame, bear guide, forging hammer). Also suitable for other lubrication points subject to high thermal and mechanical loads.

Viscosity 40°C: 1300 mm²/s; Viscosity 100°C: 55 mm²/s;

INDUSTRIAL GEAR OIL

Industrial gear oil / Mineral oil

Geka EP

Oxidation resistant lubricating oil, based on a highly refined mineral oil.

Geka EP Oils have excellent wear protection qualities, with high oxidation and anti-corrosion protection, easy filterability, excellent demulsibility and high pressure capacity.

Geka EP Oils are zinc-free.

ISO VG 32 - 680; Designation: CLP / CKC

Geka EP M

Geka EP M Oils high-pressure special gear oils based on mineral oil with a special additive combination for excellent anti-wear properties. They are resistant to aging, have good anti-corrosion and anti-foaming properties.

Geka EP M Oils contain micro fine Molybdenum disulfide (MoS₂) and have dry running properties.

Geka EP M Oils are used for hypoid gears with high sliding component and other heavily loaded gears of special design.

ISO VG 100 - 1200; Designation: CLPF / CKC

Industrial gear oil / Synthetic (PAO)

GEAR- HP

Gear-HP oils are fully synthetic high-performance EP lubricants based on thermally stable PAO base oils with a highly effective additive combination.

Gear-HP oils have excellent high-pressure properties, outstanding wear protection behavior, high ageing resistance and good corrosion protection.

Gear oils are recommended for a wide range of gearboxes in industry, plant engineering and mobile equipment. Gear drives as well as plain and roller bearings, flexible couplings, chain drives and link chains are optimally lubricated.

ISO VG 220 - 680; CLP-HC / CKS

Industrial gear oil / Synthetic (PG)

Molsyn EP

MOLSYN-EP are fully synthetic EP lubricants based on polyglycol for high thermal-mechanical loads. They are characterized by very high pressure resistance and very good wear and corrosion protection.

MOLSYN-EP have excellent thermal and shear stability, good viscosity-temperature behavior and a low pour point.

ISO VG 32-1000; CLP-PG; ISO 12925-1; ISO 6734-6 CSPG, CTPG;

Application:

- long-term lubrication in highly loaded gearboxes
- plastic calender bearings; approval KKA Kleinewefers: **MOLSYN 220 EP**
- paper machines; FAG tested: **MOLSYN 320 M-EP**
- Lubrication of plastic calender bearings; FAG tested: **MOLSYN 460 M-EP**
- Gear lubrication for gear trains: **MOLSYN 680 M-EP**
- cement roller mills; Krupp-Polysius Ref. No 82 approval: **MOLSYN 1000 M-EP**
- for bearing lubrication in plastic calender; approval KKA Kleinewefers: **MOLSYN 1000 M-EP**

Industrial Lubricant Oil

Molsyn

fully synthetic high performance lubricating oils, based on polyglycol. They are characterized by very good wear and corrosion protection and high thermal resilience.

ISO VG 32-1000; CL-PG

- **MOLSYN 150 / 220 / 320 / 460 / 680-M / 1000-M**
Release Andritz Küsters 096.600/23
- **MOLSYN 460-M**
ISO VG 460
Release KKA-Kleinewefers for use in plastic-calenders-bearings
- **MOLSYN 1500-M**
ISO VG 1500
Release Krupp Polysius Ref. No 83 for use in cement-roll mills (operating oil)
- **Spülmolsyn-M**
Release Krupp Polysius Ref. No 84 for use in cement roller mills (flushing oil)

Product Overview Molsyn

ISO VG	Molsyn	Molsyn EP	Molsyn M	Molsyn M-EP
32	Molsyn 32	Molsyn 32 EP		
46	Molsyn 46	Molsyn 46 EP		
68	Molsyn 68	Molsyn 68 EP		
100	Molsyn 100	Molsyn 100 EP		
150	Molsyn 150	Molsyn 150 EP		
220	Molsyn 220	Molsyn 220 EP		
320	Molsyn 320	Molsyn 320 EP	Molsyn 320-M	Molsyn 320 M-EP
460	Molsyn 460	Molsyn 460 EP	Molsyn 460-M	Molsyn 460 M-EP
680			Molsyn 680-M	Molsyn 680 M-EP
1000			Molsyn 1000-M	Molsyn 1000 M-EP
1500			Molsyn 1500-M	

HEAT TRANSFER OILS

Heat transfer oil / Mineral oil

The Molson series are high-quality Solvent raffinates with a high VI index, low Sulphur content and good oxidation stability.

Molson can be used in a wide temperature range.

The maximum film temperature is 340°C.

- **Molson 30** Viscosity (40°C) 30,7 mm²/s Release Andritz Küsters 096.600/31 Steel roll-calender
- **Molson 100** Viscosity (40°C) 97 mm²/s Release Andritz Küsters 096.600/26 HOT-S-ROLL 200 Release Andritz Küsters 096.600/34 HOT-S-ROLL 200-Steel roll combination
- **Molson 980** Viscosity (40°C) 475 mm²/s Release Andritz Küsters 096.600/27 HOT-S-ROLL 250 Release Andritz Küsters 096.600/33 HOT-S-ROLL 250-Steel roll combination Release Andritz Küsters 096.600/28 HOT-S-ROLL 275

Heat transfer oil / Synthetic oil based on Polyglycol

Molsyn - fully synthetic lubricants for high thermal loads. Characterized by very good wear and corrosion protection.

Excellent thermal and shear stability, good viscosity behavior and low pour point.

- **Molsyn 220**
Viscosity 40°C: 220 mm²/s
As a heat transfer oil with simultaneous suitability as a gear oil for lubricating a wide range of gear types, for circulating bearing lubrication
- **Molsyn 1000-M**
as heat transfer oil for nonwoven calenders, Andritz-Küsters approval (096.600/24, S-RLL 170, closed system)
Specially recommended for use in: Shrink tunnels and HALBACH continuous ovens
Viscosity 40°C: 1100 mm²/s

Cutting Oil

- **Cutting Oil-MB/SM**

High Performance Oil, heavy deep drilling operations and broaching
chromium steel, chrome nickel steel, chrome molybdenum steel, steel casting

Drawing Oils

Steel

- **Drawing Oil-44 S** Chlorinated drawing and cutting oil for noncutting metal forming operation of high strength materials. Extremely pressure resistant, separating sliding layer build-up

Copper / Brass

- **Drawing Oil-406 S** Chlorine-free, evaporating drawing oil for copper tubes for external lubrication and lubrication inside at final draw (blank glow without residue). Also suitable for copper tube drawing.
- **Drawing Oil-L 860 E/N** Chlorine-free, pressure-resistant EP-drawing oil for massive cold forming. Suitable for tube drawing of copper, brass, aluminum.
Viscosity at 40°C: approx. 1.300 mm²/s
- **Drawing Oil-L 871/II** Chlorine-free, extremely pressure-resistant, high viscosity EP-drawing oil for massive cold forming. Suitable for tube drawing of copper, brass, aluminum.
Viscosity at 40°C: approx. 2.600 mm²/s

Aluminum Drawing Oil upon request

High temperature lubricant

- **Gradislub SM** aqueous, graphite-containing lubricant with good adhesion to various materials, dispersion of graphite in water. Forms an even lubricating film after application.
Has been specially developed for the cement, ceramic, tile and brick industry where high application temperatures can occur.
Used on ladle slide gates and tundish slide gate systems.
Increases the durability of slider plates, improves the sliding of the sliders, fills cracks in refractory materials.
+100 to +600°C

Metalworking / Die Lubrication

- **Gradislub 21**
Gradislub-21 is a water-miscible, graphite-containing die lubricant for non-cutting hot hot forming of non-ferrous metals such as hot forging, stamping and extrusion of copper alloys.
Enables free flowing, produces high surface quality, economical application working temperatures up to 700 °C.
- **Gradislub 31**
Water-miscible, graphite-containing die lubricant for non-cutting hot forming of non-ferrous metals at high forming temperatures.
Particularly used for forming operations with a high degree of difficulty and high temperatures. Used for hot forging, stamping and extrusion of copper alloys. In addition to its lubricating and separating properties due to its water content, also has a cooling effect for the forming tools. Due to the excellent wetting behavior, an effective lubricant film is formed.
working temperatures up to 1100 °C.

Different **Brass-Copper-Forming / Pressing greases** upon request



Möllenberg & Sonntag GmbH & Co. KG
Wiedenhaufe 3
58332 Schwelm
Germany

Represented by:
Managing Director: Markus Külpmann

Contact

Telephone: +49 2336 9196-0

Telefax: +49 2336 9196-21

Email: info@ms-schmierstoffe.de

web: ms-schmierstoffe.de
ms-lubricants.com

Register entry

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