LUBRICANTS & GREASES

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HHS 2000

High pressure resistant and highly adhesive synthetic lubricating oil

High lubrication power
- Prevention of noises
- Vibration and impact dampening properties
- Long lasting lubrication effectiveness

High creeping capacity
- The product’s capillary action enables it to penetrate into inaccessible areas
- Thanks to the migrating properties it does not require dismantling of parts

High adhesive
- No “throwing off” of the lubricant with turning and rotating parts

Material compatibility
- Compatible with O-Rings, X-Rings, plastic, metal, painted surfaces, etc.

Pressure resistance under high pressure loads

Despite high pressure loads and the shear movement of the base body, the lubricating film of the HHS 2000 remains active and does not tear off. Separates the opposing body from the base body, ensuring optimum wear protection under high pressure loads. This is possible only with a dirt-free surface!

HHS GREASE

High quality, long-term maintenance grease with PTFE.

Long life lubricating features
Excellent sealing behaviour against moisture and dirt. Therefore, top oxidation stability and extension of lubricating intervals. High corrosion protection property.

Outstanding material compatibility
- Excellent compatibility (plastic)
- Behaves neutrally toward painted surfaces

Solid lubricant with PTFE
- After grease film tears off, PTFE takes over lubrication (emergency running property)
- High thermal stability

With special white pigmentation
Optimum recognition of lubrication points during maintenance and inspection

Sealing behaviour against dirt and splash water

The grease forms a sealing “grease collar” against moisture and dirt particles between the opposing body and the base body. The dirt cannot reach the lubricating point, ensuring long-term lubrication. The lubricating intervals extended in this way are only possible with good pre-cleaning of the lubricating point.
High performance fully synthetic creeping oil lubricant with PTFE and extreme thermal stability.

Durable lubrication and wear with PTFE
- Long term noise prevention
- After lubricating film tears off, the PTFE takes over lubrication (emergency running property)
- Maintenance of the gliding film under high thermal loads
- Vibration and impact dampening properties

High creeping capacity
- Very high migrating capacity
- Suitable for reaching non-visible areas

Highly adhesive
- No “throwing off” of the lubricant with turning and rotating parts

Material compatibility
- Compatible with O-Rings, X-Rings, plastic, metal, painted surfaces, etc.

Safety due to long-term effect
- Provides reliable, long-term protection against corrosion
- No oxidation (gumming) up to +200 °C (392 °F). Briefly up to +250 °C (482 °F).
- No coking residues

Protection of the surfaces against corrosion
- Splash and saltwater-resistant, withstands weak acids and alkaline solutions

Contains no silicone, resin or acid

Operating temperature range:
-20 °C to +200 °C (Temporarily: +250 °C)

Areas of Application:
Suitable for lubrication with the closest tolerances and high temperature loading, e.g. throttle valve joints, inside bearings, thermally loaded chains and slide rails, etc.

Operating Temperature/Service Life Graph

Where lubricating film made from ordinary mineral-oil based lubricants tears (e.g. at +120 °C red curve), our HHS 5000 offers a longer lubricating condition (green curve). This allows considerable saving of lubricant.

<table>
<thead>
<tr>
<th>Contents</th>
<th>Colour</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>335 g</td>
<td>Transparent</td>
<td>893.1063</td>
</tr>
</tbody>
</table>

Operating Temperature is °C
Extreme pressure long-term sprayable grease with OMC₂ technology.

Minimizes wearing and substance loss of lubricated surfaces
- Improves lubricity due to thermoplastic surface smoothing (OMC₂ technology)
- Reduces friction temperature, resulting in longer lubricating effect
- Low wear

Low dust and dirt adhesion
- Suitable especially for lubrication of open parts outside
- Long-term lubrication of the parts

Resistant against salt and splash water, as well as weak acids and alkaline solutions
- No rinsing off of the grease due to rain,
- High corrosion protection properties
- High pressure parts can be lubricated
- Resistant to high pressure loads
- Excellent noise and vibration damping properties

Material compatibility
Compatible with plastic, metal, painted surfaces, etc.

Contains no silicone, resin or acid

Operating temperature range:
-25 °C to +130 °C (-13 °F to +302 °F), temporarily: +170 °C (+338 °F)

Areas of Application:
Suitable for open lubrication with high dirt and weathering influence, e.g. gearwheels, wire cables, chains, spring tensioners, anti-friction bearings, etc.

Sealing behaviour against dirt and splash water:
The grease forms a sealing “grease collar” against moisture and dirt particles between the opposing body and the base body. The dirt cannot reach the lubricating point, ensuring long-term lubrication. The lubricating intervals extended in this way are only possible with good pre-cleaning of the lubricating point.

Manner of operation of OMC₂ technology

From a microscopic standpoint, all metal surfaces are rough (Fig. 1) and are subject to constant wear and substance loss when subjected to friction. HHS Lube with OMC₂ technology smoothes the metal surfaces by means of thermoplastic flow deformation (Fig. 2-3), ensuring the longer life of the components.
HHS RED LUBE

Contents

<table>
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<tr>
<th>Contents</th>
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<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>324 g</td>
<td>Red</td>
<td>893.10651</td>
</tr>
</tbody>
</table>

Extreme pressure long-term sprayable grease with OMC² technology.

- Minimizes wearing and substance loss of lubricated surfaces
  - Improves lubricity due to thermoplastic surface smoothing (OMC² technology)
  - Reduces friction temperature, resulting in longer lubricating effect
  - Low wear
- Low dust and dirt adhesion
  - Suitable especially for lubrication of open parts outside
  - Long-term lubrication of the parts
- Resistant against salt and splash water, as well as weak acids and alkaline solutions
  - No rinsing off of the grease due to rain, splashes, cleaning solutions, etc.
  - High corrosion protection property
- High pressure parts to be lubricated
  - Resistant to high pressure loads
  - Excellent noise and vibration damping properties
- Material compatibility
  - Compatible with plastic, metal, painted surfaces, etc.
- Contains no silicone, resin or acid
- Operating temperature range:
  - -35 °C to +180 °C (-31 °F to +356 °F), temporarily: +200 °C (392 °F)
- Areas of Application:
  - Suitable for open lubrication with high dirt and weathering influence, e.g. gearwheels, wire cables, chains, spring tensioners, anti-friction bearings etc.

Sealing behaviour against dirt and splash water

The grease forms a sealing “grease collar” against moisture and dirt particles between the opposing body and the base body. The dirt cannot reach the lubricating point, ensuring long-term lubrication. The lubricating intervals extended in this way are only possible with good pre-cleaning of the lubricating point.

Manner of operation of OMC² technology

From a microscopic standpoint, all metal surfaces are rough (Fig. 1) and are subject to constant wear substance loss when subjected to friction. HHS Lube with OMC² technology smooths the metal surfaces by means of thermoplastic flow deformation (Fig. 2-3), ensuring the longer life of the components.
**HHS Fluid**

**Fluid grease resistant to centrifugal force.**

**When spraying on - oil**

- Excellent creep capacity
  - Good gap penetration behaviour
  - Protects against corrosion
  - Reaches everywhere, where ordinary grease can't

**After flashing off - grease**

- Extremely active adhesive effect
  - Remains in the point to be lubricated
  - No throwing off
  - Good long-term effect

- Outstanding pressure resistance
  - Extraordinary tear-resistant lubricating film for high-pressure loads
  - Outstanding noise and vibration damping properties

- Good material compatibility
  - O-ring and X-ring compatible
  - Compatible with plastic
  - Behaves neutrally toward painted surfaces

- Splash and saltwater-resistant, withstands weak acids and alkaline solutions
- Contains no silicone, resin or acid

**Operating temperature range:**
- -25 °C to +170 °C (-13 °F to +338 °F)
- Temporarily: +200 °C (392 °F)

**Colour:** yellowish

**Application:** Suitable for lubrication with difficult re-lubrication possibilities with performing maintenance and repair work, e.g. inside bearings, wire cables, joints, shafts, rolling bearings, etc.

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**The DUO Effect**

When sprayed, has an oil-like consistency

When flashed off, a high-pressure resistant grease

![Fig. 1.1](image1.png)

![Fig. 1.2](image2.png)

Excellent creep behaviour directly after spraying on (Fig. 1.1). Penetrates between parts with close tolerances. Following brief flashing off of the active ingredient-solvent mixture, a high-viscosity grease is left behind exactly at the point to be lubricated (Fig. 1.2). At the same time, the creep point is wetted and protected against corrosion.

With the new DUO Effect creep properties as with an oil. Has active adhesive and is pressure-resistant like grease.
ASSORTMENTS

Art. No. 965.890

Premium Quality Chemical Assortment

Contents:
- 1 x Aerosol Cabinet
- 6 x Brake & Parts Cleaner
- 2 x Rost Off
- 2 x HHS 2000
- 3 x White Lithium Grease
- 3 x Gloss Black Spray Paint
- 3 x Flat Black Spray Paint
- 1 x Copper Anti-Seize CU 1100
- 1 x RTV-Sensor Safe Silicone
- 1 x RTV-Hi-Temperature Silicone
- 1 x D.O.S Super glue
- 1 x Medium Thread lock (Blue)

CUT+Cool Cooling Lubricant Concentrate

Art. No. 893.050030 5 L

Partly synthetic all-purpose lubricant with an outstanding cooling effect and excellent chip removal

Features:
- Low-foaming tendency makes it ideal to be used with soft-water
- Excellent corrosion protection for tools and workpieces
- Excellent lubricating capacities allowing for increased operating speeds and less friction

Areas of application:
- Light-to-medium weight steel, cast iron, aluminum alloys and non-ferrous metal chips
- All lathes, grinders, and machining center equipment

Note: Boron-free, amine-free, chlorine-free, and formaldehyde-free

<table>
<thead>
<tr>
<th>Usage</th>
<th>Dilution Ratio</th>
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<tbody>
<tr>
<td>Grinding of steels and non-ferrous metals</td>
<td>4 - 6%</td>
</tr>
<tr>
<td>Machining of steels and non-ferrous metals</td>
<td>6 - 10%</td>
</tr>
<tr>
<td>Refractometer factor</td>
<td>2.3</td>
</tr>
</tbody>
</table>

CUT+Cool Eco Cutting and Drilling Oil

Art. No. 893.050012 5 L

A biodegradable, ecologically-sound cutting oil with uncompromising performance.

Features:
- Odour-free
- Free of chlorine, sulphur, phosphor, silicone, resin and mineral oil
- Free of Paint-Wetting Impairment Substances (PWIS)
- Non-conductive

Benefits:
- Easy to use
- No cleaning of metals prior to assembly or further treatment required (e.g. welding) with low use concentrations
- Can be used on delicate surfaces, such as marble, plastic, and electrical components
- Minimal smoking

Areas of application:
- For local use and with loss lubrication systems.
- Optimum use with flat pressing between workpiece and tool, as well as for all difficult machining work.

Due to adherence of oil particles on machining tool, an optimum, long-term lubricating action is achieved.
**CUT+COOL CUTTING AND DRILLING FOAM**

Multi-functional cutting oil used in a variety of applications from light to medium heavy machine work.

**Features:**
- Aerosol container
- Universal use
- Free of silicone, chlorine, resin and acid
- Free of Paint Wetting Impairment Substances (PWIS)
- Spray cools on contact
- Protects tools
- Good creeping properties
- Excellent corrosion protection
- Dissolves sticky residues & deposits
- Good material compatibility

**Benefits:**
- Creeps into tight spaces
- Prevents welding of small material particles to cutting edge
- Provides lasting protection against further formation of rust and corrosion
- No re-treatment or preservation necessary
- Gumming up of chips is prevented

**Areas of Use:**
- For all ferrous and non-ferrous metals
- Steel: alloy and non-alloy
- All casting types: cast steel, malleable cast iron, die casting etc.
- Copper and its alloys: cast brass, red brass etc.
- All chrome-nickel alloys
- Aluminum and aluminum alloys

**Applications:**
- Well-suited toward all machining applications, such as: thread cutting, thread drilling, centering, stripping, reaming, drilling and milling.

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**CUT+COOL CUTTING AND DRILLING OIL PERFECT**

High-performance cutting oil for heavy-duty machining and high cutting speeds

**Features:**
- Aerosol container
- Free of chlorine, sulphur, phosphor, silicone and resin
- Free of Paint Wetting Impairment Substances (PWIS)
- Dual use as a lubricant and paste for heavy-duty machining
- Great corrosion protection
- Extremely resistant to high pressure

**Benefits:**
- Horizontal and overhead applications can be executed with ease
- Provides excellent results and safety for all materials and applications
- Can be welded without cleaning when smaller quantities are used
- Extends the life of tools
- Easy machining of hard steels with maximum strength

**Areas of Use:**
- Optimum use for all machining of all materials such as steel, high-alloy steel, aluminum, non-ferrous metals, titanium, hard metals, cast iron, etc.

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**CUT + COOL CUTTING AND DRILLING OIL**

**Art. No. 893.050004** 287 g

Multi-functional cutting oil used in a variety of applications from light to medium heavy machine work.

**Features:**
- Aerosol container
- Universal use
- Free of silicone, chlorine, resin and acid
- Free of Paint Wetting Impairment Substances (PWIS)
- Spray cools on contact
- Protects tools
- Good creeping properties
- Excellent corrosion protection
- Dissolves sticky residues & deposits
- Good material compatibility

**Benefits:**
- Creeps into tight spaces
- Prevents welding of small material particles to cutting edge
- Provides lasting protection against further formation of rust and corrosion
- No re-treatment or preservation necessary
- Gumming up of chips is prevented

**Areas of Application:**
For drilling, thread tapping, thread forming, turning, countersinking, reaming and sawing. Optimal for stainless steel, but also high-alloy & construction steel, non-ferrous and precious metals. Can be used as a preservative agent for semi-finished and finished parts, machine parts, and as gun oil.

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**Art. No. 893.050008** 334 g

Multi-functional cutting oil used in a variety of applications from light to medium heavy machine work.

**Features:**
- Aerosol container
- Universal use
- Free of silicone, chlorine, resin and acid
- Free of Paint Wetting Impairment Substances (PWIS)
- Spray cools on contact
- Protects tools
- Good creeping properties
- Excellent corrosion protection
- Dissolves sticky residues & deposits
- Good material compatibility

**Benefits:**
- Creeps into tight spaces
- Prevents welding of small material particles to cutting edge
- Provides lasting protection against further formation of rust and corrosion
- No re-treatment or preservation necessary
- Gumming up of chips is prevented

**Areas of Application:**
For drilling, thread tapping, thread forming, turning, countersinking, reaming and sawing. Optimal for stainless steel, but also high-alloy & construction steel, non-ferrous and precious metals. Can be used as a preservative agent for semi-finished and finished parts, machine parts, and as gun oil.
## APPLICATION TABLE

<table>
<thead>
<tr>
<th>Materials</th>
<th>Cutting and Drilling Oil</th>
<th>Cutting and Drilling Oil Perfect</th>
<th>Cutting and Drilling Oil Eco</th>
<th>Cooling Lubricant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel, alloyed steel</td>
<td>**</td>
<td>***</td>
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<tr>
<td>High-alloy steel</td>
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<tr>
<td>Cast iron, grey cast iron</td>
<td>**</td>
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<tr>
<td>Carbide</td>
<td>**</td>
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<tr>
<td>Non-ferrous metal (copper, brass, etc.)</td>
<td>**</td>
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<td>**</td>
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</tr>
<tr>
<td>Titanium</td>
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<tr>
<td>Magnesium</td>
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<td>Aluminum, aluminum alloys</td>
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<tr>
<td>Machining processes</td>
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<tr>
<td>Turning, automatic lathe</td>
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<td>Drilling, countersinking, reaming</td>
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<td>Deep drilling</td>
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<td>Sawing</td>
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<td>Thread tapping</td>
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<tr>
<td>Thread forming, rolling</td>
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<td>Punching, fine punching</td>
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<td>Broaching, tooth cutting</td>
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<td>Characteristics</td>
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<tr>
<td>Basis</td>
<td>Mineral oil</td>
<td>Mineral oil with synth. ester</td>
<td>Synth. ester</td>
<td>Mineral oil</td>
</tr>
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<td>Viscosity (mm²/s)</td>
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<td>25</td>
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<td>Minimal quantity lubrication</td>
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<td>Free from mandatory warning symbols</td>
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<td>Suitable for overhead applications</td>
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<td>Very high lubricating performance</td>
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<td>Very long tool life</td>
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<td>Minimal smoking</td>
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<td>Good creep properties</td>
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<tr>
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<td>Water hazard class</td>
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</table>

## TECHNICAL INFORMATION

<table>
<thead>
<tr>
<th>Product</th>
<th>Cutting and Drilling Oil</th>
<th>Cutting and Drilling Oil Perfect</th>
<th>Eco Cutting and Drilling Oil</th>
<th>Cooling Lubricant Concentrate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art. No.</td>
<td>893.050004</td>
<td>893.050008</td>
<td>893.050012</td>
<td>893.050030</td>
</tr>
<tr>
<td>Container</td>
<td>Aerosol, 400 mL</td>
<td>Aerosol, 400 mL</td>
<td>Canister, 5 L</td>
<td>Canister, 5 L</td>
</tr>
<tr>
<td>Type</td>
<td>Multi-functional oil for many applications</td>
<td>High-pressure resistant high-performance cutting oil for excellent results with all materials</td>
<td>Biodegradable, harmless cutting oil</td>
<td>Universal cooling lubricant with high corrosion protection</td>
</tr>
<tr>
<td>Properties</td>
<td>For universal use</td>
<td>Extremely good creep capacity</td>
<td>Already cools while spraing on</td>
<td>Dissolves sticky residues and deposits</td>
</tr>
<tr>
<td></td>
<td>Good material compatibility</td>
<td>Low-foaming</td>
<td>Good material compatibility</td>
<td>Good material compatibility</td>
</tr>
<tr>
<td></td>
<td>Gumming up of chips is prevented</td>
<td>Very high microbial stability</td>
<td>Gumming up of chips is prevented</td>
<td>Very high microbial stability</td>
</tr>
<tr>
<td></td>
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<tr>
<td>Base</td>
<td>Mineral Oil</td>
<td>Mineral oil with synth. ester</td>
<td>Synth. ester</td>
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<tr>
<td>Colour</td>
<td>Brown-yellow</td>
<td>Yellow</td>
<td>Light yellow</td>
<td>Brown (concent.), Semi-transparent emulsion</td>
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<td>Flash point (oil)</td>
<td>190 °C (374 °F)</td>
<td>170 °C (338 °F)</td>
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<tr>
<td>Viscosity, mm²/sec</td>
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<td>Density at 20 °C, g/cm³</td>
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<td>Refractive index</td>
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<tr>
<td>Loadability, wear protection</td>
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<td>26 mm² (steel²)</td>
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<tr>
<td>service life</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>25 mm² (steel²)</td>
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<tr>
<td>Brugger Test, N/mm² (DIN 51347)</td>
<td>22</td>
<td>113</td>
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<td>22</td>
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<tr>
<td>Shelf life, months</td>
<td>12 (+5 to +40 °C)</td>
<td>12 (+5 to +40 °C)</td>
<td>12 (+5 to +40 °C)</td>
<td>12 (+5 to +40 °C)</td>
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<tr>
<td></td>
<td>(+41 to 104 °F)</td>
<td>(+41 to 104 °F)</td>
<td>(+41 to 104 °F)</td>
<td>(+41 to 104 °F)</td>
</tr>
</tbody>
</table>
WOOD GLIDE

Art. No. 893.070  5 L

Wood Glide is great for neutralizing resin, preventing wood shavings and wood dust from sticking to and clogging machinery.

Features:
- Cleans adjustment wheels, hand spindles and dimensional stops
- Prevents corrosion on bare or polished machine tables
- Behaves neutrally on post-treatment with paints, stains or varnishes
- Repels moisture
- Silicone-free

Areas of application:
- Can be used on all wood-working machines

Recommended:
Use with Spray Pump Bottle (1L) Art. No. 893.070-P

Note: Wood Glide must not be applied directly to the workpiece surface. Preliminary testing is required for painted parts.

WÜRTH FILM

Art. No. 893.3300  340 g

Würth Film is a non-conductive long-term penetrant lubricant that protects against rust and corrosion.

- Ideal product to use for the protection of all metal surfaces
- The penetrating and coating action ensures moisture is displaced and further moisture intrusion is prevented
- Will not dry up and flake off
- The aerosol format provides ease of application, especially in hard-to-reach areas
- Provides lubrication to sliding surfaces, to prevent binding and squeaking
- Penetrates through rust, stopping all metal deterioration on contact
- Solvent free, non-toxic, non-conductive, silicone free and environmentally friendlier
- Temperature range: -10 °C to +60 °C (+14 °F to +140 °F)

Application:
- Automotive and Trucking: battery terminals, brake cables, door hinges, hood & trunk mechanisms, all nuts, bolts & studs, throttle cables, tools, wheel lugs, trailer attachments
- Agriculture: applicators and transfer pumps handling liquid fertilizers, balers, blades/cutters, combines, cultivators, tractors, winches, fertilizer spreaders, irrigation fittings, pruning shears & saws, control cables
- Boating: battery terminals, boat trailers, outboard engines against salt spray, electronic equipment, fishing reels, pulleys
- Manufacturing / Industrial: chain falls, conveyor belt rollers, cranes, exposed gears & machined surfaces, mould release agent, snow ploughs

COGWHEEL SPRAY

Art. No. 893.1055  296 g

Black, shear-resistant, high-pressure resistant special lubricant.

- High-pressure resistant.
- Reliable wear protection, even under high pressure loads.
- Noise and vibration-damping.
- Shear-resistant.
- Excellent lubrication, even with quickly rotating lubricating points.
- Addition of solid lubricants. Features good emergency running properties.*
- Contains corrosion protection additives. Gets under moisture and protects against corrosion.
- O-ring compatible.
- Resistant to sprayed and salt water, as well as to weak acids and caustic solutions.
- Silicone and bitumen-free.
- Temperature range from -30°C to +180°C (-22°F to +356°F).

Areas of application:
For long-term lubrication of open lubricating points, heavily loaded gearwheels, rapidly turning chains and for lubricating turning gears, toothed racks, fifth-wheel pick-up plates, leaf springs, etc. both indoors and outdoors.

* Emergency running property: The solid lubricant prevents extreme wear in the critical phases of lubricating film tear-off.
Metal-free, grey-coloured lubricating paste which reduces wear, promotes separation and protects against corrosion.

Features:
- Universal application
- Supple & highly adherent
- Contains no metal-pigments
- Free of graphite, MOS₂ and additives containing sulfur
- Silicone free
- Non-toxic

Industry use information:
- Machine tools of all kinds
- Vehicles, construction & agricultural machines
- Conveyor technology, pipeline construction, assembly/maintenance/repair departments
- Tool manufacturing
- Mechanical workshops

Technical Data

<table>
<thead>
<tr>
<th>Base</th>
<th>Synthetic mineral oil mixture with organic thickener and solid lubricant combination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature range</td>
<td>-40°C to +1,400°C (temperature range of solid lubricants)</td>
</tr>
</tbody>
</table>

Test data

- Tests in mixed friction area
- Four-Ball Tester Acceptable load/Welding load: 3,800/4,000 N, DIN 51350-4
- SRV (cylinder/plate; 450 N, 1,000 µm, 50 Hz, 2h)
  - Friction coefficient: 0.10 - 0.13
  - Wear depth: 0.3 µm
- Corrosion protection test
  - Salt-spray test > 500 h, DIN 50 021t

Areas of application:

- Splined shafts and joints of all kinds
  - High pressure resistance ensures smooth movement and minimal wear

- Slide and roller bearings, fly wheels and runners
  - Non-destructive pressing in and out
  - Operational readiness
  - Protection of the edges from wear and seizing

- Press fittings on slide bearings, bed tracks and column guides
  - Smooth, jerk-free movements, even at low speeds
  - Emergency lubrication for additional lubrication with greases or oils
  - Protection against edge pressing

- Heavy-duty stroke spindles
  - Shut-off valves, taps, slide valves
  - Smooth movement of adjustment spindles
  - Uniform tightening torques and non-destructive dismantling of screw connection

- Brake parts, clamping chucks, heavy clamped connections
  - Ensures high clamping forces
  - Ensures uniform tightening and loosening
  - Adhesive, water-resistant lubricating film

- Flange connections, pins, screws, bolts and nuts
  - Ensures even tightening torques thanks to the minimum friction coefficient distribution
  - Non-destructive dismantling, even after long effects of heat exposure
  - Prevents seizing up, e.g. with stainless-steel bolts

Note: Product is not suitable for bearing lubrication.
Physiologically safe special lubricant on a paraffin oil base.

- Can be used in areas in which food is processed or stored.
- NSF H1
- In this context, the product may come into contact with foodstuffs for occasional, technically unavoidable reasons.

Viscous, colourless special lubricant

- Reduction of wear and friction
- Excellent corrosion protection

Can be applied exactly where needed

- Optimum, precise lubrication at defined lubrication points
- Economical and sparing

Safety product

- Especially user-friendly and secure handling
- Improved workplace safety and health protection
- Free from mandatory warning symbols

Tasteless and odourless

AOX and silicone-free

Areas of Application:

For all lubricating points on machines, conveying systems, gearboxes, plain bearings and anti-friction bearings as well as for use as a release agent and lubricant and for corrosion protection in the food, pharmaceutical, printing and paper industries. For the care and maintenance of stainless steel in breweries, bakeries, meat factories, industrial kitchens and hospitals.

<table>
<thead>
<tr>
<th>Technical Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical basis</td>
</tr>
<tr>
<td>Density at 20 °C</td>
</tr>
<tr>
<td>Temperature range</td>
</tr>
<tr>
<td>Basic oil viscosity at 40 °C</td>
</tr>
</tbody>
</table>

PTFE DRY FILM LUBRICANT

Art. No. 893.550 180 g

Transparent, non-soiling dry lubricant

Remedies squeaking, creaking and jamming

Provides long-term protection against wear

Dry lubrication

Does not attract dirt and dust

Film thickness 10 µm

Can also be used with extremely close tolerances in fine machinery

Very high resistance

- Thermally stable from -180 °C to +260 °C (Temporary)
- Permanently resistant to water acids and alkaline solution

Silicone-free

Mineral oil-free

Areas of application:

Suitable for dry lubrication of sliding points. For cases of minimal and medium exposure, can be used for metals, plastic, rubber, etc. Ideal for sliding-roof and seat rails, door hinges and locks, sliding doors, tilt window mechanisms, window locks, furniture hinges, drawers, runners, ball bearings, electrical switches, etc. Also ideal as a release agent if used sparingly.
WIRE ROPE SPRAY

Art. No. 893.1058 325 g

Protective wax with OMC2 for lubrication and conservation

No dripping off when at hot temperatures
Ideal for areas subjected to direct sunlight

Optimal creep properties
- Good penetration of the lubricating wax in the smallest crevices
- Lubrication in hard to reach places

Outstanding water resistance
- Optimal suitability for outdoor use
- Protects against moisture and wetness
- Excellent corrosion protection

Contains additives with OMC2 technology
- Improved lubricating film
- Extended corrosion protection
- Low wear
- Longer service life

Free of AOX and silicone
Free from resin and acid

Areas of Application:
Lubricates and conserves wire ropes on winches, lifts, conveyors as well as carrier and sling ropes.

Technical Data:
- Base: Synthetic wax oxidation base
- Colour: Brown
- Water resistance (DIN 51807, Part 1): 0-90
- Corrosion protection (DIN 51802): No rust spots after 7 cycles
- Temperature Range: -40 °C to +120 °C (-40 °F to +248 °F)

Function principle of OMC2 technology:

Viewed under a microscope, all metal surfaces are rough and are subject to continual wear and loss of substance due to friction. OMC2 additives render metal surfaces smoother due to thermoplastic flow deformation through organo-metallic compounds. The flow deformation is controlled individually, depending on the load the metal surface is subjected to.

- Improved surface quality due to metal surface sealing
- Improved lubricating film
- Reduced thermal loading
- Less friction (up to 50% in mixed friction area)
- Reduced loss of substance
- Reduced wearing
- Longer service life
TIRE AND RUBBER LUBRICANT

A special spray lubricant that facilitates the assembly and disassembly of rubber parts.

Features:
- Spray lubricant with a foam-like texture that evaporates without leaving a residue or dirty grease.
- Will not attack aluminum, rubber, varnish or paint.
- Application temperature 10°C - 35°C.
- Ideal for lubricating tires for easy mounting on rims, particularly for low profile or run-flat tires.
- Can be used to reduce friction/resistance when pulling cables through pipe, ducts or conduit.
- Suitable for assembly of hoses, rubber plugs, door rubbers, rubber covers, silent blocs, etc.

MAINTENANCE SPRAY

Highly effective wear protection additives ensure excellent friction reduction

- Prevents freezing in winter, as no moisture can accumulate
- Outstanding creeping and cleaning performance
  - Keeps door and window hinges running smoothly
  - Lubricates and protects all precision mechanical devices
- Resin and acid-free
  - Sensitive components are not attacked
- Silicone-free
- Also suitable for use as a gun oil

Use:
For lubricating hinges, tool and machine holders, etc.

LOCK CYLINDER SPRAY

Excellent creeping properties ensure very good moisture displacement

- Prevents freezing in winter, as no moisture can accumulate
- Contains corrosion protection additives
  - Provides permanent protection of locking mechanisms

Resin and acid-free
Sensitive components are not attacked

Silicone-free

Use:
For the care of all types of locks.
Multi function spray.

Rust penetrating agent
• Excellent creeping properties ensure quick rust and corrosion penetration

Lubricant
• Very good lubrication properties
• Remedies creaks and squeaks
• Reduces friction and wear

Cleaner
Great cleaning power is ensured thanks to penetration under dirt, grease and oil residue

Corrosion protection
Best possible cling to metals. A thin, viscous protective film prevents moisture on even the smallest uneven spots and protects against rust and corrosion.

Contact spray
Water- and moisture-displacing properties and excellent creeping properties improve electrical conductivity and remedy leakage current.

Resin, acid, and silicone free

Does not attack rubber, paint or plastics

Use:
• Loosens rusted bolts, pipe fittings, screws, nuts, joints, bowden cables, shafts, locks
• Lubricates closures, hinges, bushings, chains, door locks
• Stops squeaking and creaking and frees up movement of stuck or jammed parts
• Cleans and cares for plastic and metal parts such as coverings and housings
• Prevents corrosion of metals and electrical modules, cable connections, relays, plugs, couplings, etc.
• Prevents icing of cylinder locks and closures
• Penetrates and displaces moisture in electrical and electronic applications

5 in 1 A universal product for five different areas of use

GREASE
FLUID GREASE
OIL

Technical Data

<table>
<thead>
<tr>
<th>Spray Nozzle</th>
<th>Contents</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cobra (pictured)</td>
<td>255 g</td>
<td>893.055400</td>
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<td>Classic</td>
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<td>893.05540</td>
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<table>
<thead>
<tr>
<th>Technical Data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Transparent bright yellow</td>
</tr>
<tr>
<td>Density</td>
<td>0.790 g/ml</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-30 °C to +130 °C (-22 °F to +266 °F)</td>
</tr>
<tr>
<td>Base oil viscosity</td>
<td>30 cst at 40 °C</td>
</tr>
</tbody>
</table>
**Multi-Plus**

Synthetic, physiologically safe multi-function spray with high-end properties for universal use

Can be used in areas in which food is processed or stored. NSF H1

- In this context, the product may come into contact with foodstuffs for occasional, technically unavoidable reasons.

**A product for a wide spectrum of applications**

- Rust penetrating agent with creeping properties
- Wear reducing lubricant
- Good long-term corrosion protection
- Reliable release agent

**No danger symbols such as Xi, Xn, F, F+ or N**

- Suitable for use in physiologically and ecologically sensitive areas
- Low danger potential
- Safe working

**Areas of Application:**

For the lubrication and maintenance of connecting joints, chains, seals and moving parts in automotive engineering, as well as in critical areas of the food, pharmaceutical, printing and paper industries. As a release agent, for corrosion protection and for all applications in which the use of conventional products on a mineral oil basis or of critical additives and solvents is not desired.

**Technical Data**

<table>
<thead>
<tr>
<th>Contents</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>324 g</td>
<td>893.056</td>
</tr>
</tbody>
</table>

**Chemical basis**

Synthetic oil with multi-functional additive combination

**Density at 20 °C (active substance)**

0.83 g/cm³

**Temperature range**

-50 °C to +210 °C

**Basic oil viscosity at 40 °C**

32 mm²/s

Free from white oil / mineral oil

Good material compatibility

Resin-, acid- and silicone-free

Colourless, non-discolouring

- Can be used on bright backgrounds
- No discolouration in the case of occasional contact with the product

**Areas of Application:**

For the lubrication and maintenance of connecting joints, chains, seals and moving parts in automotive engineering, as well as in critical areas of the food, pharmaceutical, printing and paper industries. As a release agent, for corrosion protection and for all applications in which the use of conventional products on a mineral oil basis or of critical additives and solvents is not desired.
MULTI-PURPOSE GREASE II

Lithium saponified, high-pressure resistant graphite grease with EP additives

- High pressure resistant thanks to EP additive
- Excellent anti-seizing properties thanks to graphite
- Good sealing effect and corrosion protection
- Very good dust, dirt and water-repellent properties
- Silicone- and resin-free
- Comes in practical “pull off” cartridge

Application:
For average- and heavy-load anti-friction, slide, ball and roller bearings, shafts, rotary joints and assemblies, sideways and guides, spline shafts, joint rods, hinges, hydraulic units, etc.

Technical Data:

<table>
<thead>
<tr>
<th>Soap base</th>
<th>Lithium 12 hydroxystearate</th>
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</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Grey black</td>
</tr>
<tr>
<td>NLGI Class (DIN 51818)</td>
<td>2</td>
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<tr>
<td>Temperature range</td>
<td>-20 °C to +130 °C [-4 °F to +266 °F]</td>
</tr>
<tr>
<td>Basic oil viscosity at 40 °C</td>
<td>60 mm²/s</td>
</tr>
<tr>
<td>Drop point (DIN ISO 2176)</td>
<td>190 °C</td>
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<tr>
<td>Worked penetration (DIN ISO 2137)</td>
<td>280</td>
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<tr>
<td>Corrosion protection (SKF Emcor Test, DIN 51802)</td>
<td>0</td>
</tr>
<tr>
<td>VKA welding load (S1350)</td>
<td>2400 N</td>
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<tr>
<td>Designation pursuant to DIN 51502</td>
<td>KP2K2-30</td>
</tr>
</tbody>
</table>

Contents | Art. No.
400 g | 893.8711

Recommended:
Hand-Lever Grease Gun Art. No. 986.00

Note:
Greases are delivered in plastic cartridges! The plastic cartridges improve storage (they prevent the grease from oozing out in high temperature conditions). Store cartridges upright in a cool, dry place! The operating instructions of the vehicle, machinery and aggregate manufacturers must be observed!

MULTI-PURPOSE GREASE III

Physiologically safe, colourless grease with multi-functional additive combination

- Can be used in areas in which food is processed or stored. NSF H1
- In this context, the product may come into contact with foodstuffs for occasional, technically unavoidable reasons.

Good adhesive properties
Stable against pressure and oxidation-resistant
Supports quality of seals
Dust and water-repellent
Resin, acid and silicone-free
Safety product
- Especially user-friendly and secure handling
- Improved workplace safety and health protection
- Free from mandatory warning symbols

Recommended:
Hand-Lever Grease Gun Art. No. 986.00

Note:
Greases are delivered in plastic cartridges! The plastic cartridges improve storage (they prevent the grease from oozing out in high temperature conditions). Store cartridges upright in a cool, dry place! The operating instructions of the vehicle, machinery and aggregate manufacturers must be observed! For further information see the technical information leaflet.

Application:
For the lubrication and care of machines, plain bearings and anti-friction bearings, for long term lubrication in wet rooms and areas as well as in critical areas in the food, pharmaceutical, printing and paper industries.

Technical Data:

<table>
<thead>
<tr>
<th>Soap base</th>
<th>Anorganic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Transparent</td>
</tr>
<tr>
<td>NLGI Class (DIN 51818)</td>
<td>2</td>
</tr>
<tr>
<td>Temperature range</td>
<td>20 °C to +150 °C [-4 °F to +302 °F]</td>
</tr>
<tr>
<td>Basic oil viscosity at 40 °C</td>
<td>100 mm²/s</td>
</tr>
<tr>
<td>Drop point (DIN ISO 2176)</td>
<td>None</td>
</tr>
<tr>
<td>Worked penetration (DIN ISO 2137)</td>
<td>285</td>
</tr>
<tr>
<td>Corrosion protection (SKF Emcor Test, DIN 51802)</td>
<td>0</td>
</tr>
<tr>
<td>VKA welding load (S1350)</td>
<td>1800 N</td>
</tr>
<tr>
<td>Designation pursuant to DIN 51502</td>
<td>KP2N-20-30</td>
</tr>
</tbody>
</table>

Contents | Art. No.
400 g | 893.107002

 Recommended:
Hand-Lever Grease Gun Art. No. 986.00

Note:
Greases are delivered in plastic cartridges! The plastic cartridges improve storage (they prevent the grease from oozing out in high temperature conditions). Store cartridges upright in a cool, dry place! The operating instructions of the vehicle, machinery and aggregate manufacturers must be observed! For further information see the technical information leaflet.

Application:
For the lubrication and care of machines, plain bearings and anti-friction bearings, for long term lubrication in wet rooms and areas as well as in critical areas in the food, pharmaceutical, printing and paper industries.
**HIGH PERFORMANCE COMMERCIAL VEHICLE GREASE**

Art. No. 893.8804  25 kg

Lithium-complex lubricating grease with semi-synthetic oil base

Meets specifications MAN 284, MB 265.1 and exceeds MB 267

- Highest quality through compliance with specifications of leading vehicle manufacturers

Wide range of applications

- One single lubricant for most lubricating points, resulting in simpler stock-keeping and highest degree of application safety

Very high pressure absorption capacity

Good corrosion protection

Water resistant

Free from silicone, acids and resins

Areas of application:

For lubricating points on commercial vehicles subject to medium or high loads, such as wheel bearings (axle bearings), driveshaft bearings, axle drives, trailer couplings, loading tailgates, wheel hubs, universal joints, steering knuckles, wheel suspensions, lifting gear, hand brake linkage, tipper bearings, semi-trailers, etc.

Note: Store in a cool, dry place!

- The operating instructions of the aggregate and vehicle manufacturers must be observed! For further information please refer to Technical Information booklet!
- Not suitable for lubricating points, such as tie rod yokes, for which lubricants with solid lubricant content are specified.

Technical Data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Lithium complex</th>
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</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Light yellow</td>
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<tr>
<td>NLGI class (DIN 51818)</td>
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</tr>
<tr>
<td>Temperature range</td>
<td>-30 °C to +150 °C (22 °F to +302 °F)</td>
</tr>
<tr>
<td>Permanent lubrication</td>
<td>+200 °C (392 °F)</td>
</tr>
<tr>
<td>Viscosity at 40 °C</td>
<td>100 mm²/s</td>
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<tr>
<td>Drop point (DIN ISO 2176)</td>
<td>above 260 °C (500 °F)</td>
</tr>
<tr>
<td>Worked penetration (DIN ISO 2137)</td>
<td>265-295</td>
</tr>
<tr>
<td>Water resistance (DIN 51 807 T1)</td>
<td>1-90</td>
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<tr>
<td>Corrosion protection (DIN 51 802)</td>
<td>Corrosion grade 0</td>
</tr>
<tr>
<td>Meets specifications</td>
<td>MAN 284, MB 265.1 and exceeds MB 267</td>
</tr>
<tr>
<td>Designation according to DIN 51 502</td>
<td>KP 2P 30</td>
</tr>
</tbody>
</table>

SIG 3000

Super impact grease for fleets and heavy equipment.

- Multi-purpose grease fortified with special additives enabling it to withstand the heavy impact and pounding pressures common to heavy equipment
- Special additive package allows the grease to stay in place and not to spatter or pound out of the bearing or grease fitting
- Long-lasting under extreme pressure and heavy impact
- 65,000 psi/65 Timken load*
- Temperature resistance to 285 °C (545 °F)
- Superior water resistance and resists most acids, dirt, salt spray, steam, dust, dirt and weather
- Contains extra rust, corrosion and oxidation inhibitors
- Synthetic formula will not burn grass on golf courses

* Timken load is a qualitative measure that indicates the possible performance of extreme pressure additives (EP). A measure of 35 or higher indicates the presence of extreme pressure additives. EP additives are especially beneficial in applications that experience high axial or thrust loads. EP additives are also shown to reduce fatigue on bearings.

Note: Greases are delivered in plastic cartridges! The plastic cartridges improve storage (they prevent the grease from oozing out in high temperature conditions). Store cartridges upright in a cool, dry place! The operating instructions of the vehicle, machinery and aggregate manufacturers must be observed! For further information see the technical information leaflet.

Recommended:

Hand-Lever Grease Gun Art. No. 986.00

Technical Data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Green</th>
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</thead>
<tbody>
<tr>
<td>Thickener</td>
<td>Clay</td>
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<tr>
<td>Penetration (ASTM D-217)</td>
<td>245-265 mm</td>
</tr>
<tr>
<td>NLGI Grade</td>
<td>2.5</td>
</tr>
<tr>
<td>Draining Point (ASTM D-556)</td>
<td>-288°C (+550°F)</td>
</tr>
<tr>
<td>Timken OK Load (ASTM D-2209)</td>
<td>65 lbs</td>
</tr>
<tr>
<td>Water resistance</td>
<td>Excellent</td>
</tr>
<tr>
<td>Acid resistance</td>
<td>Excellent</td>
</tr>
<tr>
<td>Rust resistance</td>
<td>Excellent</td>
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<tr>
<td>Base oil viscosity</td>
<td>SUS @100°F 800</td>
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<tr>
<td>SUS @ 40°C</td>
<td>66</td>
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<td>SUS @ 210°F</td>
<td>151</td>
</tr>
<tr>
<td>SUS @ 100°C</td>
<td>11.7</td>
</tr>
</tbody>
</table>
**LOW TEMPERATURE LITHIUM GREASE**

**Premium grade, heavy duty industrial grease.**
- Designed to provide an extended service life.
- Resists thinning or hardening in service, which minimizes leakage and prolongs the service life of the grease.
- Has a dropping point well above 260 °C (500 °F), is extremely stable under high or low temperature conditions.
- Excellent centralized lubricant system grease because of excellent shear stability and pumpability over a broad temperature range.

**Technical Data**
- High Temp Lithium Complex
- Wide service temperature range: -40 °C to 260 °C (-40 °F to 500 °F)
- Excellent resistance to extreme pressure and wear
- 60 Timken OK Load
- Good water resistance
- Contains corrosion and rust inhibitors
- 260 °C (500 °F) Dropping Point

**Areas of Application:**
Recommended for extended service in heavy duty applications such as construction and mining equipment. Ideal for ball and roller bearings, anti-friction bearings, pillow blocks, wheel bearings, bucket pins, shakers, exhaust fan bearings, gear motors, king pins, kiln cars, slides and ways, marine applications and soot blowers.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Contents</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
<td>397 g</td>
<td>890.602</td>
</tr>
</tbody>
</table>

**PREMIUM MOLY GREASE**

**Non-melt grey coloured lubricant containing molybdenum disulphide.**
- Fortified to provide anti-wear and low friction performance through a wide temperature range.
- The molybdenum disulfide enables reduction of friction and protects against excessive wear from extreme loads, galling and seizing.
- The protective mechanism of Würth Premium Moly Grease, acts by plating the metal surfaces, imparting extra protection and extending the lubrication cycle.
- Exceptionally resistant to most acids, salt spray, steam, dirt, dust, water, oxidation and weather.
- Has excellent adhesive and cohesive properties, as well as high shock protection.
- Protects equipment indoors or outdoors, even under high temperatures and heavy loads.

**Technical Data**
- Moly for Extra EP Ability.
- 288 °C (550 °F) Dropping Point
- Non-melt grease
- 65 Timken OK Load
- Weather Resistant
- Excellent lubricity and a low coefficient of friction

**Areas of Application:**
Construction equipment, farm equipment, cotton gins, bottling plants, automotive, marine, steel mills, industrial plants, oil field equipments, paper mills, asphalt plants, trucking industry

<table>
<thead>
<tr>
<th>Colour</th>
<th>Contents</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dark Grey</td>
<td>397 g</td>
<td>890.603</td>
</tr>
</tbody>
</table>
**PREMIUM WHITE LITHIUM GREASE**

Art. No. 893.10411 396 g

**All purpose white lubricant**
- Lubricates and protects against corrosion
- Reduces friction and wear on all moving parts
- Safe on paints and plastics
- Water resistant
- Withstands moisture and high heat
- Good resistance to washout
- Stainless and non-toxic
- Temperature range: -5 °C to +110 °C (23 F to +230 °F)

**Application:**
Lubrication of door hinges, hood latches, trunk latches, hatchback struts, seat tracks, jacks, winches, gear shift mechanisms, steering linkages, garage door and delivery truck door tracks. Ideal for all types of metal to metal lubrication.

**WHITE LITHIUM GREASE**

**Adherent lubricating white grease**
- Displaces water
- Anti-corrosive
- Will not run on vertical surfaces
- Temperature range: -10 °C to +120 °C (14 °F to 248 °F)

**Applications:**
Door strikers, door locks and hinges, brake parts, safety check straps on doors, switching mechanisms, hood strikers, hood hinges, truck strikers

<table>
<thead>
<tr>
<th>Description</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 g Can</td>
<td>893.870300</td>
</tr>
<tr>
<td>200 g Tube</td>
<td>893.870200</td>
</tr>
</tbody>
</table>

**TRUE GLIDE**

**Heavy-duty, multipurpose synthetic grease with PTFE**

**Features:**
- A synthetic lubricant that provides long-life protection against friction, wear, rust, and corrosion
- Compatible with most other lubricants and will not run, drip, evaporate or form gummy deposits
- Will not melt or separate
- It is an excellent dielectric and operates over a temperature range from -42 to 232 °C [-45 to 450 °F]
- NSF approved for incidental food contact [H-1]. NLGI grade 2
- Compatible with most rubbers and plastics
- Silicone-free

**Applications:**
- Ideal for use on plain, anti-friction, ball, roller and wheel bearings, cams, slides, valves, conveyors, chains, hubs, axles, shocks, springs, etc.
- Clean and dry area to be treated. When using on bearings, wipe clean before pumping grease to avoid contamination. Do not over-grease, as excessive heating may result. Periodically clean and repack bearings with fresh grease. For best results, purge other greases before use. Re-apply as necessary.

<table>
<thead>
<tr>
<th>Container</th>
<th>Contents</th>
<th>Art. No.</th>
<th>P. Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube</td>
<td>150 g</td>
<td>893.899</td>
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**PREMIUM SILICONE SPRAY**

Art. No. 893.92211 276 g

Excellent lubricant made out of 100% pure viscosity silicone and release agent.

For use in the automotive, industrial and household areas

Automotive:
- Lubricates and prevents squeaks of rubber parts around windows, doors, trunk lids, mounts and contact points on hoods
- Prevents rubber from freezing and sticking to metal and keeps it flexible
- Waterproofs and protects electrical and ignition systems
- Spray and buff to rust-proof chrome and other metals

Industrial:
- Adds longer life to cutting blades
- Lubricates, waterproofs and rustproofs machinery
- Use on conveyor belts and as a release agent for heat sealing equipment

Household:
- Lubricates garage doors, windows, doors, drawers and cabinets
- Rustproofs tools and barbecues

**SILICONE SPRAY**

Art. No. 893.223 322 g

White, extremely lubricant, water-displacing and insulating silicone grease

- Outstanding sliding capability on almost all surfaces
- Extremely high water-displacing properties
- Very high electrical resistance, thus very good insulating properties (\( \approx 14.7 \text{ kV/mm} \))
- Temperature resistance range from -40 °C to +300 °C (\(-40 \text{ °F to } +572 \text{ °F}\))
- Colour: transparent when sprayed, after application a white film of lubricant remains on the treated surface

Application Areas:
- Suitable for lubricating door bolts, glide rails, door and furniture hinges and drawers, etc. Also suitable for protection against moisture and corrosion in electrical components and wiring. Also ideal for lubricating switches.

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<tr>
<td>Domestic</td>
<td>325 g</td>
<td>893.9221</td>
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</tbody>
</table>
**FOOD GRADE SILICONE SPRAY**

Art. No. 893.221001 386 g

**High quality, physiologically safe anti-friction and release agent.**

Can be used in areas in which food is processed or stored. In this context, the product may come into contact with foodstuffs for occasional, technically unavoidable reasons.

**Contains highly concentrated high-quality silicone oils**

- Optimum anti-frictional and lubricating properties
- Prevents sticking
- Eliminates unpleasant squealing noises
- Prevents wear

**Extremely good temperature resistance from -40 °C to +232 °C (-40 °F to +450 °F)**

Wide field of application, also in the field of high temperatures and as a mould release agent

**Colourless, non-colouring**

- Can be used on bright backgrounds
- No discoloration in the case of occasional contact with the product

**Safety product**

- Non-toxic
- Non-chlorinated
- Especially user-friendly and safe handling
- Improved workplace safety and health protection
- Reduced marking with danger symbols

**Good material compatibility**

Moisture repellent, protects e.g. rubber parts against frost

**Application:**

As an anti-friction agent and for the lubrication of all moving parts of machines, especially in the field of plastics, in automotive engineering, in the food, pharmaceutical, printing and paper industries. Also as a mould release agent in the plastics processing industry and for the protection and care of surfaces.

<table>
<thead>
<tr>
<th>Chemical basis</th>
<th>Silicone</th>
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</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Clear</td>
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<tr>
<td>Temperature range</td>
<td>-40 °C to +232 °C (-40 °F to +450 °F)</td>
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<tr>
<td>Odour</td>
<td>Mild odour</td>
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<td>Specific Gravity</td>
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**SILICONE LUBRICATING COMPOUND**

Art. No. 890.2211 226 g

**100% Silicone Lubricating Compound**

- Excellent general rubber and plastic lubricant
- Provides a moisture barrier
- Will not cause rubber brake components to swell
- Ideal for lubricating rubber parts in brake system, as well as slider pins during assembly
- Shelf life: 12 months
- Temperature range: -56 °C to +230 °C (-69 °F to +446°F)

**Application:**

As a general purpose lubricant for all types of rubber and plastic components, and for the protection and care of surfaces.
**AL 1100**

High temperature aluminum paste with excellent adhesive lubricating, separating and corrosion protection
- Temperature resistant from -80 °C to +1100 °C (-112 °F to +2122 °F)
- Aluminum copper based high performance anti-seize lubricant
- Resistant to water, alkalis and acids
- Prevents seizing, fusing, wear and corrosion

**Applications:**
- Brakes
- Batteries
- Battery terminal posts
- Gaskets
- Screw connections
- Exhaust

<table>
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<tr>
<th>Consistency</th>
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<th>Qty.</th>
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<tbody>
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</tr>
<tr>
<td>Paste</td>
<td>893.11010</td>
<td>1000 g</td>
</tr>
</tbody>
</table>

**COPPER ANTI-SEIZE**

Resistant to high temperature and pressures, highly adhesive copper lubricating, release and corrosion protection paste

**Very high resistance**
- Temperature range from -40 °C to +1200 °C (-40 °F to +2192 °F)
- Resistant to water, alkaline solutions and acids

**Great, long-lasting lubricating effect**
- Provides long-term protection against burning-on and seizing, cold welding, wear, corrosion and frictional corrosion

**Use:**
- Brakes:
  - Back sides of disc brake pads (prevents squeaking), fastening and individual parts
- Battery terminals:
  - Contact protection, nozzles of arc welding torches (prevents formation of welding beads)
- Seals:
  - Prevents baking on of solid seals
- Miscellaneous:
  - Screw connections (exhaust manifold screws, spark plug threads, etc.), bearings, pivot points, joints, sliding surfaces

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<tbody>
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<td>CU 800 Paste</td>
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<td>CU Copper Paste</td>
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<tr>
<td>Anti-Seize Copper Paste with brush</td>
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<td>284 g</td>
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MOLY 50S ANTI-SEIZE GREASE

High performance extreme pressure lubricant

Features:
- Smooth, non-separating and non-hardening formulation, provides extreme pressure lubricating properties
- Temperature resistance up to 343°C (650°F)
- Free from lead, copper, and halogenated compounds
- NLGI grade 1
- Withstands pressures up to 500,000 psi
- Meets requirements of MIL-T-83483

Application:
To prevent corrosion, galling, seizing and galvanic pitting between metal parts such as nuts and bolts, valve assemblies, boom guides, chain drives, shafts, taps and drills, press assemblies, metal fittings, pipe fittings, pump mountings, and gaskets.

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<tbody>
<tr>
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Container Contents Art. No. P. Qty
Canister with brush 284 g 893.923290 1