



*Be the best, use the best!*



[www.metalubs.com](http://www.metalubs.com)



**METALUBS**<sup>®</sup>  
high tech lubrication

HIGH-TECH  
**ENGINE**  
PROTECTION



MADE IN GERMANY



**250 ml e**  
**8.45 fl.oz**

### **Metalubs X Protect**

A metal surface finisher provided with polyceramic components, with excellent friction reducing and sealing effect. It is recommended to both new and worn engines, and must be added to oils of the required quality. It is applicable where forced lubrication is used, and friction reduction is required. In most vehicles 25% of energy generated by the fuel is lost due to friction. This friction loss is reduced by Metalubs X Protect by 60%. The engine oil forwards polyceramic microparticles to all points where friction may develop. Due to their micro sizes they get to the uneven metal friction surfaces of cylinders, pistons, bearings, rings, gears, etc., to where they get fixed and partly burnt in. In addition to the reduction of friction the integrated microparticles eliminate leakage problems. Thus the ratio of toxic gases drastically reduces in emission gases. In addition, oil consumption significantly reduces, and compression increases.

As a result of the chemical metal surface finish the product provides ideal terms for the oil film, and thereby significantly increases the lifetime of the equipment. Due to the particularly low friction coefficient of polyceramic added to the metal surface finish Metalubs X Protect offers safety lubrication. This facilitates the inner operation of the engine and the movement of parts, which entails the increase of the engine output and fuel saving. Triple lifetime is guaranteed when continuously used in new equipment. The polyceramic has a very great importance in modern lubrication engineering. The roughness of metal friction surfaces of engines and switchgears is very insignificant, often only 1 micron, thus larger microparticles do not adhere to the metal surface. The filtering elements of oil filters have, in general, filtering structures and filtering fineness of 15 to 25 micron (the fineness of superfine filters is 1 to 3 micron), thus they cannot filter 1 micron polyceramic microparticles of Metalubs X Protect. Thereby Metalubs X Protect may be used also in mainstream and partial-flow superfine filters. Today many vehicles are provided with partial-flow filtering units with a fineness of 1 to 3 microns, this is why microparticle fineness is required.

Entering into chemical reaction with metals Metalubs X Protect tempers their materials when pressurised. The resulting extraordinarily hard and very smooth surface resists damages caused by friction, and offers ideal terms to lubricating oils even under extreme loads. Due to the significantly reducing friction the operational temperature as well as the noise level immediately and noticeably decrease.

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## Metalubs X Protect

Metalubs X Protect is a unique high tech, poly-ceramic metal surface treatment. The specially developed, environment friendly Metalubs X Protect is particularly suitable for use in new, used and worn petrol, diesel, gas and turbocharged engines.

### Dosage:

Replace between 5-10% of the engine oil, and 10% of the transmission oil with Metalubs X Protect.

### Note:

Suitable only for manual transmission and differential locks! Shake well before use and pour into the hot engine!

### Features:



- More Power
- Easy engine start



- Extend engine life
- Reduces harmful emissions
- Reduces fuel consumption



- Reduces frictions by 60%
- Reduces operation temperature
- Reduces engine noise



- Extends oil change interval
- Lubricates even in extreme conditions



- Turbo and catalyst tested
- Environment friendly

Since Metalubs X Protect integrates into metals rubbing against each other, and tempers their materials, it eliminates cold-start problems, and offers a protective effect for a certain period also in case of partial oil starvation or loss of full oil pressure. It can be mixed with all synthetic and mineral based lubricating oils and greases. Oil treated with Metalubs loses its lubricating quality later, and thereby oil change intervals increase, and the environmental load reduces.

No unbeneficial changes may occur in the machines in case of proper use.

### Area of use





HIGH-TECH  
FUEL SYSTEM  
PROTECTION



MADE IN GERMANY



250 ml e  
8.45 fl.oz

### Metalubs XD

It is a modern fuel additive in diesel-fired engines, and is excellent for the treatment of fuel oils. It has all properties that the most modern fuel additives have, and due to its Metalubs content it tempers metal surfaces contacting the gas oil. Due to this effect precise fitting of metal surfaces moving against each other and surface treatment of the different passages of the fuel system may be achieved. Metalubs X D prevent a number of problems arising during the storage, delivery and combustion of fuels.

It is a commonly used practice to mix diesel fuels of different origin. This adversely affects their stability, accelerates fuel decomposition, mud and bacteria growth, and thus the combustion value of the fuels significantly reduces. Seized-in injection nozzles, infected pipes, filters and pumps waste the expensive fuel, reduce the efficiency, and increase the maintenance costs.

In addition, corrosion problems, rusting, acidification and water damages are also frequent in diesel equipment. Metalubs X D contains all high-value and universal components, which are necessary for the efficient handling of the above problems. Due to the chemical surface tempering effect of Metalubs X D a precise fitting of the sliding metal surfaces may be achieved, thus the lifetime also significantly increases. The efficiency of the particularly sensitive injection nozzle is considerably improved with the use of the pulverisation pattern and with accurate fuel feed. Thus the so-called "cold resinification" may be avoided. Water drops representing high risk of disturbance in the suspension emulsify, and thereby are efficiently removed from the unit. Metalubs X D is in practice ash-free (it does not contain inorganic matters of metals), compatible with the majority of hydrocarbon fuels, and cannot be extracted. The components of Metalubs X D meet the requirements of the Environment Protection Authority of the U.S.A/EPA [DUR]/365.

With the use of Metalubs X D, as a result of the higher resistance of the surfaces to friction and of the significantly improved combustion the outputs of the engines may considerably increase – with fuel saving. Die to its composition Metalubs X D purifies all fuel-supply pipes, and inhibits the deposit of contaminations.

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## Metalubs XD

A high-tech fuel treatment developed for diesel operated engines. Due to its **Metalubs XD** content the lifetime of the fuel supply system significantly increases, harmful emissions are reduced, valves are continuously cleaned, at the same time performance improvement and fuel economy is achieved.

Its use allows a more environment friendly engine operation: destructive operation has a beneficial effect on the emission of harmful materials (less diesel exhaust), and the required energy is gained by the engine from less fuel. In addition, it improves cold-start properties, and prevents freezing of fuel-supply pipes. Metalubs X D reduces the maintenance of diesel engines treated with it. No unbeneficial changes may occur in the machines in case of proper use.

### Instructions:

40 ml per 40 litres must be poured into the tank in the first 200 litres diesel fuel, directly before refueling. Then regularly add 20 ml to each 40 litres of diese fuel.

Validity: Unlimited

### Features:



- Improves fuel economy
- Smooth engine running



- Cleans fuel injector
- Prevents injector nozzle from smear-off



- Neutralizes water contamination
- Corrosion inhibitor protection



- Removes carbon deposits from valves
- Extends maintenance period



- Extends the lifetime of the DPF filter
- Reduces harmful emissions
- Environment friendly

### Area of use





HIGH-TECH  
FUEL SYSTEM  
PROTECTION



MADE IN GERMANY



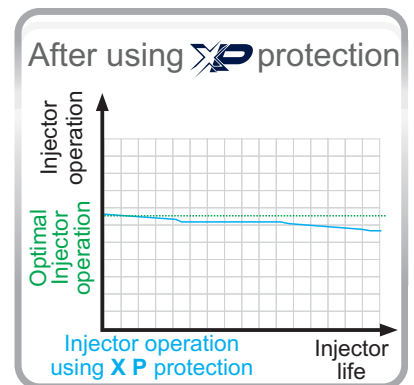
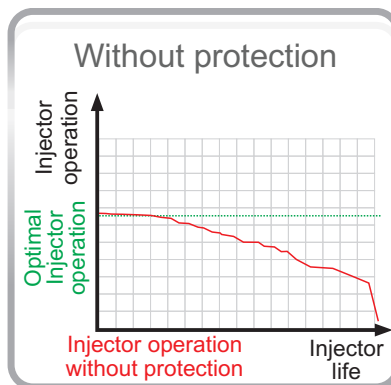
250 ml e  
8.45 fl.oz

## Metalubs XP

It is a modern fuel additive in petrol operated engines. It has all properties that the most modern fuel additives have, and due to its Metalubs content it tempers metal surfaces contacting the petrol. Due to this effect precise fitting of metal surfaces moving against each other and surface treatment of the different passages of the fuel system may be achieved.

As a result of the higher resistance of the surfaces to friction and of the significantly improved combustion the outputs of the engines may considerably increase – with fuel saving. Beyond this XP purifies the whole fuel system – due to its composition -, and inhibits deposit of contaminants. Its use allows a more environment friendly engine operation: destructive operation has a beneficial effect on the emission of harmful materials, and the required energy is gained by the engine from less fuel. In addition, it improves cold-start properties, and prevents freezing of fuel-supply pipes in winter. XP reduces the maintenance of petrol engines treated with it. With its continuous use no lead substitute needs to be added in engines requiring lead free fuels.

No unbeneficial changes may occur in the machines in case of proper use.





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high tech lubrication



### Metalubs XP

**Metalubs XP** is a high-tech fuel treatment developed for petrol operated engines. Due to its **Metalubs X P** content the lifetime of the fuel supply system significantly increases, harmful emissions are reduced, valves are continuously cleaned, at the same time performance improvement and fuel economy is achieved.

#### Instructions:

40 ml per 40 litre must be poured into the tank in the first 200 litre of petrol, directly before refueling. Then regularly add 20 ml to each 40 litre of petrol.  
(Dosage recommended for Europe) Validity: Unlimited

#### Features:



- Improves fuel economy
- Smooth engine running



- Cleans fuel injector
- Prevents injector nozzle from smear-off



- Neutralizes water contamination
- Corrosion inhibitor protection



- Removes carbon deposits from valves
- Extends maintenance period



- Extends the lifetime of the Catalyst
- Reduces harmful emissions
- Environment friendly

#### Area of use





**METALUBS**<sup>®</sup>  
high tech lubrication

HIGH-TECH  
TRANSMISSION  
PROTECTION

**XT**  
TRANSMISSION

MADE IN GERMANY

### Metalubs XT

It is an inhibiting, metal surface finisher with friction reducing effect specially designed for switchgears, differential gears and drive gears used in the industry. When added to lubricating oils of the required quality it is excellent for the treatment of new and slightly worn equipment, and produces outstanding results in a short time.

Entering into chemical reaction with metals Metalubs XT tempers their materials when pressurised. The resulting extraordinarily hard and very smooth surface resists damages caused by friction, and offers ideal terms to gear oils even under extreme loads. Due to the significantly (min. 60%) reducing friction and to the minimisation of wear the lifetimes of the machines considerably increase, and their operation requires less energy (significant fuel saving) – with higher efficiency. Due to its use the operational temperature and the noise level considerably reduce, and its high antioxidant content inhibits aging of the oil. Metalubs XT offers protection to machines treated by it – for a certain time – even in case of partial or full oil starvation. It guarantees triple of the lifetime in new equipment when continuously used.

No unbeneficial changes may occur in the machines in case of proper use.



250 ml e  
8.45 fl.oz

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high tech lubrication






### Metalubs X T

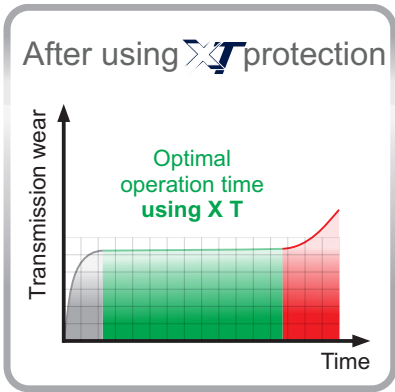
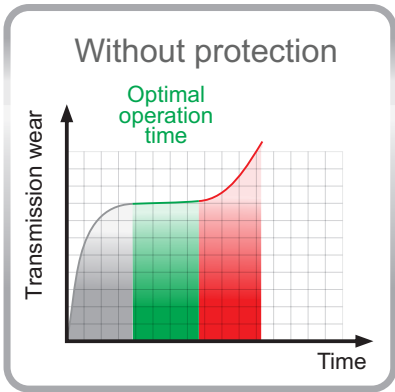
**Metalubs XT** is a high-tech transmission treatment developed to increase the lifetime of manual transmissions, differential gears and industrial gears. Due to its **Metalubs X T** friction reducing content, operating temperature and noise significantly reduces, at the same time performance improvement and energy saving is achieved.

#### Instructions:

It does not require skill or tools, simply add it to the fresh lubricating oil in a ratio of 5 to 10%. It is recommended to be used in case of all oil changes. The mixing ratio is 5% for post treatment. Shake it before use! Validity: Unlimited

#### Features:

-  • Extends the lifetime of the transmission
-  • Reduces transmission noise
-  • Lubricates in extreme conditions



#### Area of use





**METALUBS**<sup>®</sup>  
high tech lubrication

HIGH-TECH  
OLD & WORN ENGINE  
TREATMENT

**XOLD**  
restoration

MADE IN GERMANY



**250 ml e**  
**8.45 fl.oz**

## Metalubs XOLD

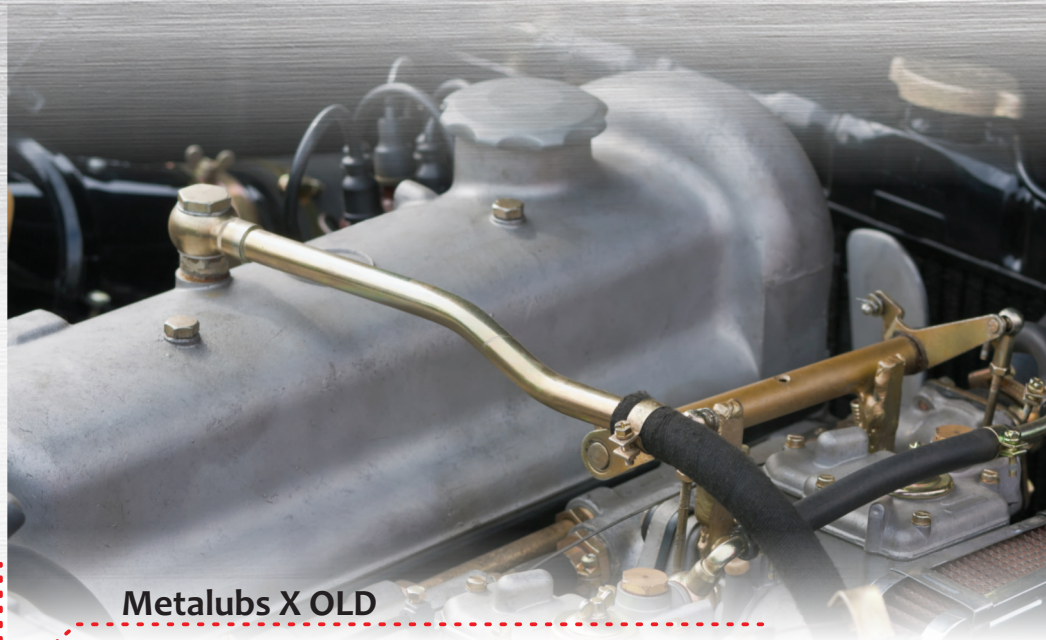
Metal surface finisher built on high viscosity basic material, provided with polyceramic components, with excellent friction reducing and sealing effect. Its use is recommended for all worn explosion engines with high oil consumption – whether they are petrol, diesel, Wankel, gas or turbo -, and must be added to oils of the required quality. X Old has been developed for cars, engines, trucks, tractors, boat engines and heavy-duty special engines due to the resulting wear phenomena. In most vehicles 25% of energy generated by the fuel is lost due to friction. This friction loss is reduced by X Old by 60%. The engine oil forwards polyceramic microparticles to all points where friction may develop.

Due to their micro sizes they get to the uneven metal friction surfaces of cylinders, pistons, bearings, rings, gears, etc., to where they get fixed and partly burnt in. In addition to the reduction of friction the integrated microparticles eliminate leakage problems. Thus the ratio of toxic gases drastically reduces in emission gases. The high viscosity carrier ensures sealing, thereby its use significantly may reduce high oil consumption, and increase the compression.

As a result of the chemical metal surface finish the product significantly increase the lifetime of the equipment. Due to the particularly low friction coefficient of polyceramic added to the metal surface finish X Old offers safety lubrication. This facilitates the inner operation of the engine and the movement of parts, which entails the increase of the engine output and fuel saving.

The polyceramic has a very great importance in modern lubrication engineering. The roughness of metal friction surfaces of engines and switchgears is very insignificant, often only 1 micron, thus larger microparticles do not adhere to the metal surface. The filtering elements of oil filters have, in general, filtering structures and filtering fineness of 15 to 25 micron (the fineness of superfine filters is 1 to 3 micron), thus they cannot filter 1 micron polyceramic microparticles of X Old. Thereby X Old may be used also in mainstream and partial-flow superfine filters. Today many vehicles are provided with partial-flow filtering units with a fineness of 1 to 3 microns, this is why microparticle fineness is required.

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Entering into chemical reaction with metals X Old tempers their materials when pressurised. The resulting extraordinarily hard and very smooth surface resists damages caused by friction, and offers ideal terms to lubricating oils even under extreme loads. Due to the significantly reducing friction the operational temperature as well as the noise level immediately and noticeably decrease.

Since X Old integrates into metals rubbing against each other, and tempers their materials, it eliminates cold-start problems, and offers a protective effect for a certain period also in case of partial oil starvation or loss of full oil pressure. It can be mixed with all synthetic and mineral based lubricating oils and greases. Oil treated with Metalubs loses its lubricating quality later, and thereby oil change intervals increase, and the environmental load reduces.

### Metalubs X OLD

**Metalubs X OLD** is a high tech-engine treatment with high viscosity base material. It contains polyceramic components, with excellent friction reducing and sealing effect. It is recommended for all worn combustion engines with high oil consumption - whether they are petrol, diesel, Wankel, gas or turbo.

#### Instructions:

Replace 5 to 10% by volume engine oil and 10% of gear oil with X Old. Fill in X Old into the warm engine. Heat the bottle to 25-30 degrees, turn it upside down and shake well before use. Let the engine run for a short time or drive on. Not a single treatment product, use it at the same ration in case of each oil change.

Validity: Unlimited

#### Features:



- More Power
- Easy engine start



- Extends engine life
- Reduces harmful emissions
- Reduces fuel consumption



- Reduces friction by 60%
- Reduces operating temperature
- Reduces engine noise



- Reduces oil consumption
- Lubricates even in extreme conditions



- Turbo and catalyst tested
- Environment friendly

#### Applications





HIGH-TECH  
ENGINE & TRANSMISSION  
CLEANER

**XCL**  
cleaner

MADE IN GERMANY



250 ml e  
8.45 fl.oz

### Metalubs XCL scavenge oil

High-tech scavenge oil for petrol, diesel and gas engines, switchgears and differential gears.

Due to its special solvent components it removes resin deposits and contaminants from the lubricating system, and thereby increases the engine output, the compression and the lifetime of the catalyst. With its use the oil and fuel consumptions reduce. No harmful engine acid remains, which would damage the fresh oil. It dissolves solid deposits (carbonates), and keeps them in a fluid state until the used oil leaves the engine compartment.

Thus it cannot lead to occlusion in small cross-section oil bores, unlike other cheap scavengers. The majority of commercially available petroleum based scavengers cannot be compared to the modern, uniquely efficient and damage-free product of top quality, Metalubs X CL. In worn engines the compression per cylinder increases, or even is balanced with its use. No unbeneficial changes may occur in the machines in case of proper use.



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high tech lubrication



## Metalubs X CL scavenge oil

High-tech cleaner for petrol, diesel and gas operated engines, switch gears and differential gears. It contains special solvent components that removes resin deposits and contaminants from the lubricating system. With its use oil and fuel consumption are reduced. No harmful engine acid remains, which would damage the fresh oil.

### Instructions:

Pour the contents of **Metalubs X CL** (250 ml) to the used oil before oil change, then run the engine for 10 to 15 minutes. The contents of one bottle is sufficient for cleaning an engine between 5 to 8 litre of oil capacity. After cleaning is done the oil and the oil filter must be replaced. Validity: Unlimited

### Features:



• Restores engine performance & compression

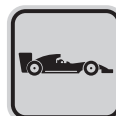


• Extends the lifetime of the catalyst and DPF filter



• Acid free composition

### Area of use





**METALUBS**<sup>®</sup>  
high tech lubrication

HIGH-TECH  
ENGINE  
TREATMENT

**X NEW**  
treatment

MADE IN GERMANY

## Metalubs X NEW

A metal surface finisher with an excellent friction reducing effect. It is particularly recommended for petrol engines with max. 100,000 km, and must be added to the lubricating oil of the required quality. It is applicable where forced lubrication is used, and friction reduction is required.

Entering into chemical reaction with metals METALUBS X NEW tempers their materials when pressurised. The resulting extraordinarily hard and very smooth surface resists damages caused by friction, and offers ideal terms to lubricating oils even under extreme loads. Due to the significant (min. 60%) reducing friction and to the minimisation of wear the lifetimes of the machines considerably increase, and their operation requires much less energy (significant fuel saving). The operational temperature and the noise level reduce, and the movement of parts with less resistance result in the increase of output at the same time. When continuously used in new equipment the lifetime may even triple.

Since Metalubs X New integrates into metals rubbing against each other, and tempers their materials, it eliminates cold-start problems, and offers a protective effect for a certain period also in case of partial oil starvation or loss of full oil pressure. It can be mixed with all synthetic and mineral based lubricating oils and greases.

Oil treated with Metalubs loses its lubricating quality later, and thereby oil change intervals increase, and the environmental load reduces. During its use oil mud and metal contamination reduces to a minimum within the machines, and the concentration of toxic gases significantly lowers in the exhaust gas.



250 ml e  
8.45 fl.oz

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high tech lubrication

## Metalubs X New

**Metalubs X New** is a high-tech metal surface treatment with an excellent friction reducing effect. It is particularly recommended for new petrol, diesel, gas, Wankel and turbo engines, with max. 100,000 km.

### Instructions:

Add to the oil at a ratio of 5-10% (minimum 0.5 dl Metalubs X New to 1 litre oil) for first treatment. Use it at every oil change. The mixing ratio for second treatment is 2.5%.

**Warning:** Do not use it in worn engines.

Validity: Unlimited



### Features:



- Lubricates even in extreme conditions



- Reduces friction by 60%
- Reduces engine noise



- Reduces operation temperature
- Extends oil change interval



- Smooth engine running
- Extends engine life



- Reduces harmful emissions
- Environmentally friendly

### Applications





HIGH-TECH  
ENGINE & TRANSMISSION  
TREATMENT

**XMULTI**  
treatment

MADE IN GERMANY



250 ml e  
8.45 fl.oz

## Metalubs X MULTI

A metal surface finisher with an excellent friction reducing effect. It is particularly recommended to add to the lubricating oil of the required diesel, gas or petrol for USED or OLD engines. It is applicable where forced lubrication is used, and friction reduction is required.

Due to its particularly fast and permanent integration mechanism Metalubs X Multi is particularly suitable for the treatment of engines of diesel-fired vehicles exposed to dynamic loads. Entering into chemical reaction with metals Metalubs X Multi tempers their materials when pressurised. The resulting extraordinarily hard and very smooth surface resists damages caused by friction, and offers ideal terms to lubricating oils even under extreme loads. Due to the significantly (min. 60%) reducing friction and to the minimisation of wear the lifetimes of the machines considerably increase, and their operation requires much less energy (significant fuel saving).

The operational temperature and the noise level reduce, and the movement of parts with less resistance result in the increase of output at the same time. When continuously used in new equipment the lifetime may even triple.

Since Metalubs X Multi integrates into metals rubbing against each other, and tempers their materials, it eliminates coldstart problems, and offers a protective effect for a certain period also in case of partial oil starvation or loss of full oil pressure. It can be mixed with all synthetic and mineral based lubricating oils and greases. Oil treated with Metalubs loses its lubricating quality later, and thereby oil change intervals increase, and the environmental load reduces. During its use oil mud and metal contamination reduces to a minimum within the machines, and the concentration of toxic gases significantly lowers in the exhaust gas. No unbeneficial changes may occur in the machines in case of proper use.

[www.metalubs.com](http://www.metalubs.com)



## Metalubs X Multi

**Metalubs X Multi** is a high-tech metal surface treatment with excellent friction reducing effect. It is recommended for in petrol, diesel, gas, Wankel and turbo engines, hydraulic systems, switchgears, differential gears, drive gears and industrial equipment in a variety of fields (railways, navigation, power plants, sewing machines, etc.).

### Instructions:

Add to the oil at a ratio of 5-10% (minimum 0.5 dl **Metalubs X Multi** to 1 litre oil) on first treatment. Use it at every oil change. The mixing ratio for second treatment is 2.5%.

Validity: Unlimited

### Features:



- More Power
- Easy engine start



- Extend engine life
- Reduces fuel consumption



- Reduces frictions by 60%
- Reduces operation temperature
- Reduces engine noise



- Extends oil change interval
- Lubricates even in extreme conditions



- Turbo and catalyst tested
- Reduces harmful emissions
- Environment friendly

## Applications





HIGH-TECH  
MULTIPURPOSE  
PENETRATION LUBRICANT

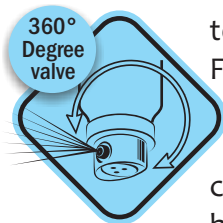
**XS**  
lubrication

MADE IN GERMANY



100 ml e  
3.38 fl.oz

400 ml e  
13.52 fl.oz



### Metalubs XS lubricant

It is a very universally used metal surface tempering inhibitor. It may be simultaneously used with oils and greases. It is not flammable.

Metalubs multipurpose lubricant tempers metal surfaces. Due to its purifying effect it removes all contaminants from the surface. Surface tempering is made partly without heat and pressure. Metalubs chemically combines with the metal molecules, and creates a very hard, very smooth and wear-resisting surface, which resists to damages resulting from friction even under extreme loads. Metalubs Spray removes moisture, salty contaminants and oxidation layers from the treated surface, and the newly created material surface is protected against rust and corrosion. It is not flammable, and therefore it offers essential safety on potentially hazardous areas.

It offers extraordinary hardness in case of different processing tools (lathes, drills, blades) making the processed surface more precise and smoother, and significantly increasing the lifetime of the processing tool. Its use does not represent any danger to rubber, plastic, textile or painted surfaces either.

No unbeneficial changes may occur on the treated tools in case of proper use.

Field of application:

Tools, locks, valves, guns, hoists, rusty screws, nuts and components, pneumatically operated tools, angling tools, air hammers, slide wires, bicycles, blocks, hinges, chain-saws, riveters, fastening units, screw cutters, cold-stamping dies, compound dies, carburettor linkages, motorcycles, augers, screw taps, metal drawing and pressing machines, sawing, drilling, etc...



**METALUBS**<sup>®</sup>  
high tech lubrication

## Metalubs XS

Metalubs XS is a high-tech metal surface treatment with a wide range of applications. It can be used together with oils and greases.

Metalubs XS creates a chemical bond with metal molecules, and creates a very hard, very smooth and wear-resistant surface, which resists to damages resulting from friction even under extreme loads.

### Instructions:

Apply Metalubs XS on the surface to be treated with the pumped distribution head (extended with a pipe if necessary). Wait 1 or 2 minutes for the product to take effect. It is not flammable.

Validity: Unlimited

### Features:



• Reduces friction



• Lubricates even in extreme conditions



• Extends the useful life of metal tools



• Extends the useful life of metal components



• Compatible with all oils and greases

### Area of use





HIGH-TECH  
GREASE



MADE IN GERMANY

### Metalubs X WF Grease

It is a waterproof, metal surface tempering and inhibiting grease with slip supporting material developed for super long applications. WF is a multipurpose calcium-based grease with extraordinarily good adhesion properties, which has been designed on the basis of synthetic and natural mineral oil base. It contains heavy-duty active agents for the case of lubrication under difficult circumstances. Roughness peaks are lubricated with the special solid matter. External appearance: light yellow, long-fibre lubricant. With the use of Metalubs X WF the lubrication periods may be multiply prolonged, the functional safety increases, and less maintenance is required. It has a particularly high resistance against wash-out from bearings and lubrication points under very extreme circumstances.

It keeps its excellent properties also against sea water, and provides permanent lubrication even in acidic and alkali mediums. It considerable reduced wear on surfaces rubbing against each other. It offers reliable corrosion protection, inhibits rusting at joints. Its adhesion properties are very strong, and may be easily pumped and transferred at the same time. Due to its high pressure absorbing ability it is rather stable against aging and shear. Temperature range of application: -25°C... +140°C.

No unbeneficial changes may occur in the machines in case of proper use.



400 gr. e  
14 oz



**METALUBS**<sup>®</sup>  
high tech lubrication

## Metalubs X WF Grease

Metalubs X WF is a high pressure grease recommended for the lubrication of vehicles as well as for industrial, construction and agricultural machinery, even when used under difficult conditions (shock loads, high humidity, salt water).

In high load sliding and roller bearings of all types of machines, in joints and tie rod joints, guided tours of lifting equipment, slide and bed ways, flexible shafts, water pumps, heavy duty bearings. In low-maintenance long-term lubrication for wheel bearings of machinery, motor vehicles, agricultural vehicles, tractors, cranes, forklifts.



• Reduces friction, long term lubrication



• Lubricates even in extreme conditions



• Wide temperature range



• Water resistance even in seawater



• Extreme pressure resistant



• Resists in acidic and basic environment

Area of use



HIGH-TECH  
GREASE

**XHT**

MADE IN GERMANY



400 gr. e  
14 oz

### Metalubs XHT Grease

It is a waterproof metal surface tempering, inhibiting grease for high pressures and high temperatures. As regards its composition it is provided with modified EP-additives and a microceramic slip supporting material.

This aluminium-complex based heavy-duty grease has been developed on the basis of the latest knowledge and state of the art. Due to its universal property it may be used as a multipurpose grease for all types of industrial machines and equipment. The microceramic additive improves properties experienced in emergency situations and under extreme loads. EP 2 Metalubs X HT grease may be exposed to extremely high mechanical loads, is waterproof, and universally suitable for the lubrication of plain and roll-neck bearings, and also for equipment with relatively high sliding friction properties, such as conical roller bearings, cylindrical roller bearings, self-adjusting ball bearings and self-adjusting bearings, and in a very wide temperature range.

Due to the special Ep-additive roughness peaks of friction points get plastically deformed without any material loss due to the eutectoid microflow, roughness pits get filled and smeared, friction reduces, and the load capacity significantly improves. It is a material suitable for lubrication in emergency situations. Temperature range of application:  $-30^{\circ}\text{C} \dots +220^{\circ}\text{C}$ .  
Field of application:

Even under heavy loads it is suitable for the lubrication of plain and roll-neck bearings, in a range from low to high rpm, in low and high temperatures. As a universal lubricant it may be used for general greasing in both large- and small-scale industries, but may be also used in case of exacting lubrication situations.

It offers goods sealing and high resistance in wet and dusty environments. It can be easily pumped and transferred even in longer lubrication pipes. It is a universal grease suitable for the lubrication of vehicles, as well as industrial, building and agricultural machines even if they must be used under difficult circumstances.

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### Metalubs X HT NLGI 2 grease

Metalubs X HT grease can be used for sliding and roller bearings under heavy loads, low to high speeds, low and high temperatures, as both universal grease for general machine lubrication in industry and crafts, as well as for demanding lubrication points. It ensures good sealing and resistance in wet or dusty environments.

Good pumpability, even by long lubrication lines. A multi-purpose grease for the lubrication of vehicles as well as for industrial, construction and agricultural machinery, even if they are used under difficult conditions.

#### Emergency running properties with micro ceramic additive.



• Reduces friction, long term lubrication



• Lubricates even in extreme conditions



• Extra wide temperature range



• Good sealing properties



Area of use



HIGH-TECH  
HYDRAULIC SYSTEM  
TREATMENT

**XH**  
hydraulic

MADE IN GERMANY

### Metalubs XH

The enhancement formula of **Metalubs X H** complies with the requirements and operating instructions of the following companies among others:

- SPERRYVICKERS
- DENISON
- CINCINNATI MILACRON
- FORD
- B.F. GOODRICH
- U.S. STEEL
- GENERAL MOTORS.

**Metalubs X H** reduces wear, friction losses and energy consumption and it contributes to the decrease of operating temperature and vibrations at the same time.

**Metalubs X H** is preferably used in the hydraulic systems of machine tools, pressure and injection-moulding machines, rams and mining equipment using vane or piston pumps.

### Instructions:

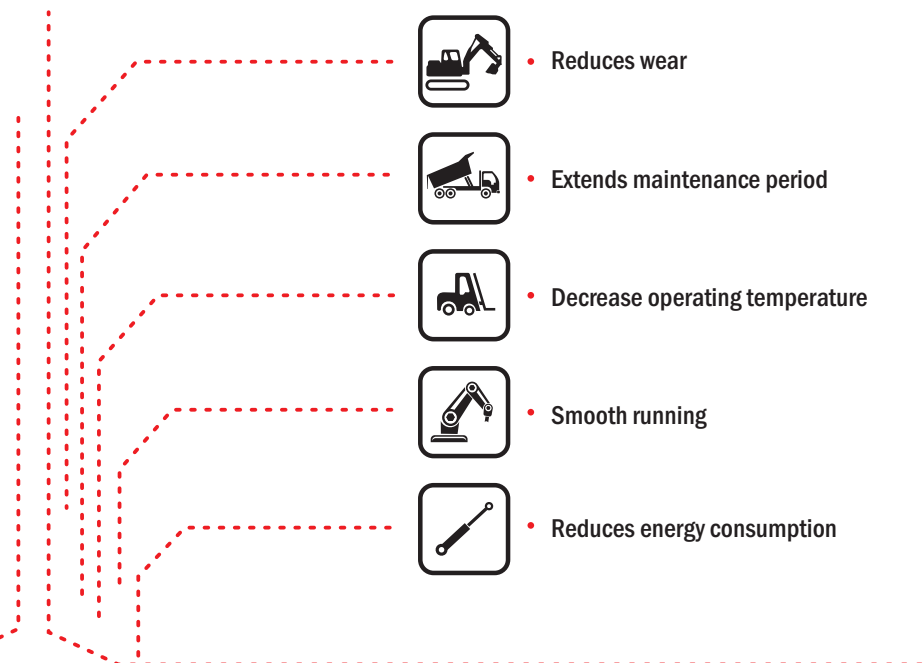
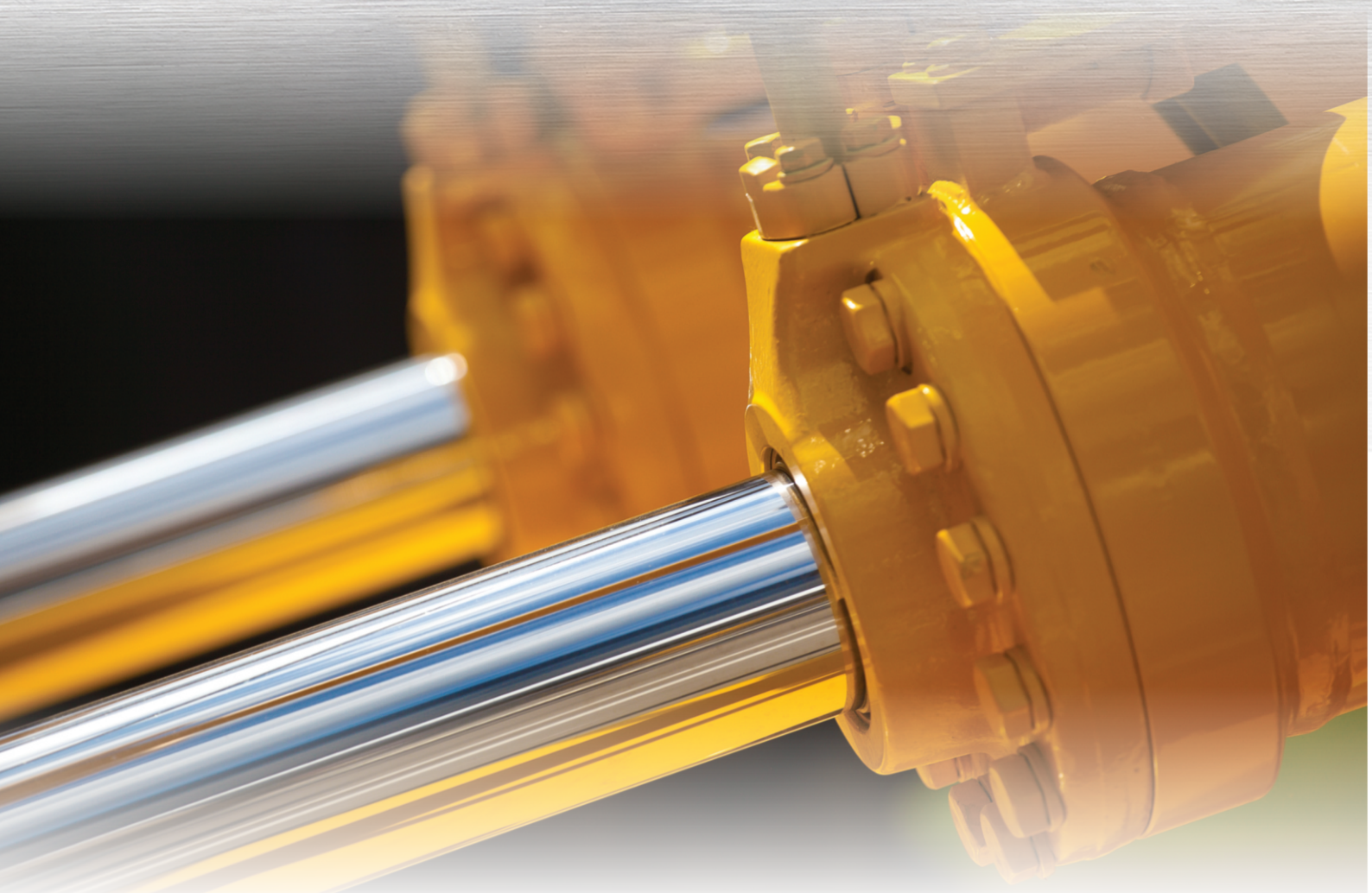
**Metalubs X H** is recommended for blending with hydraulic oil at a rate of (min.) 5% or 100 ml per 2 litre of oil. For optimum results certain applications require a higher rate of **Metalubs X H** according to requirements and based on experience. The right concentration is best determined by testing in case of special conditions.



5 L e  
169 fl.oz

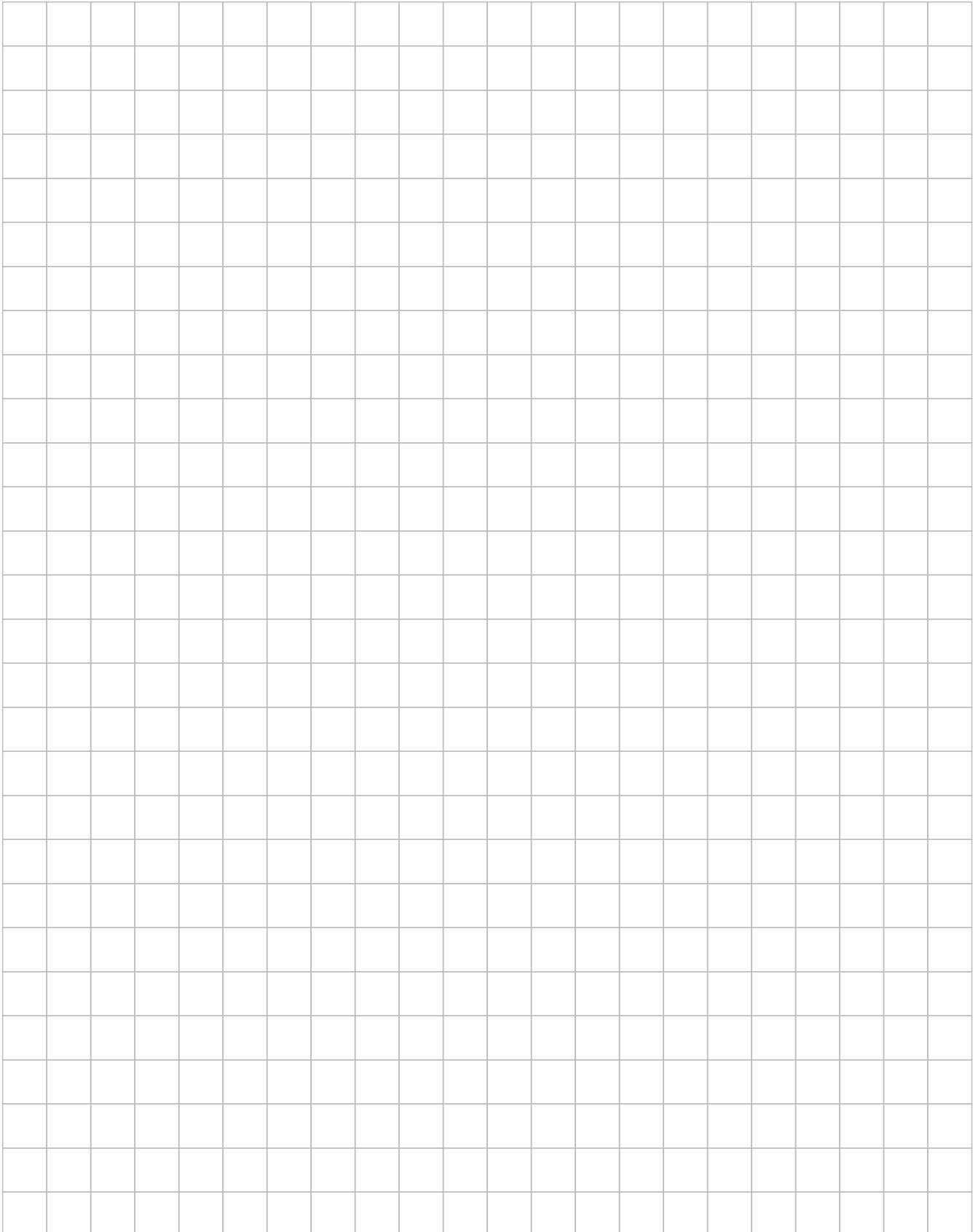


**METALUBS**<sup>®</sup>  
high tech lubrication



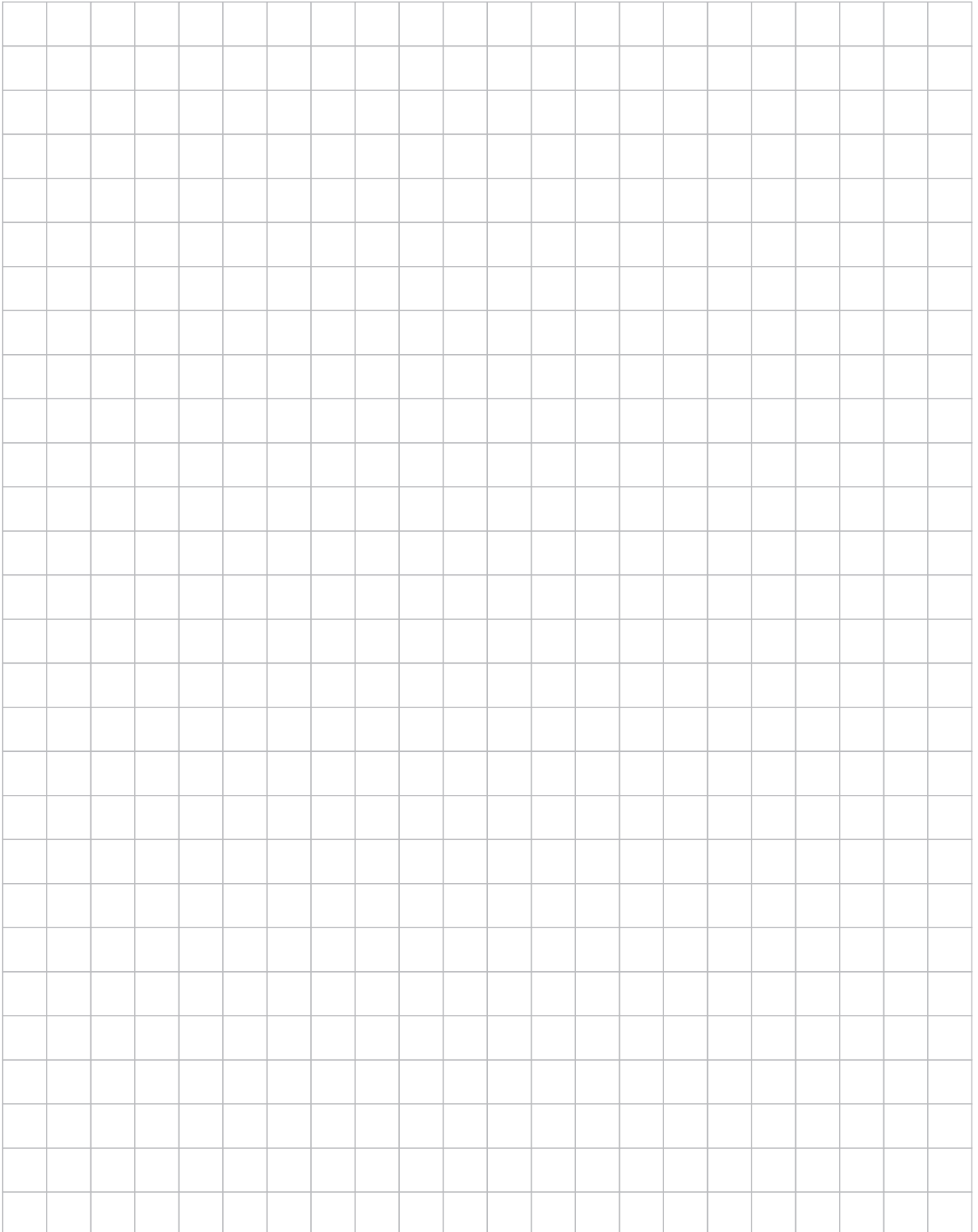


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**METALUBS®**  
high tech lubrication

- ▲ Engine treatments
- ▲ Fuel additives
- ▲ Transmission lubrication
- ▲ Engine cleaner
- ▲ Transmission cleaner
- ▲ High tech greases
- ▲ Special products

[www.metalubs.com](http://www.metalubs.com)