



Technical Liquids

- environmentally-friendly
- economical • effective



Technical Liquids

Environmental protection, economic efficiency and health and safety at work - these are all requirements which every company has to fulfil to an increasing degree. That is why products and production systems that reach these requirements are becoming all the more important.

WEICON Technical Liquids achieve these requirements to a large degree:

- they contain no flammable propellants
- no extensive or costly disposal is necessary
- emissions are reduced
- less packaging refuse
- only the substance itself is processed

WEICON Technical Liquids are available for the following areas of application:

- Cleaning and degreasing
- Lubrication, care and maintenance
- Release and separating
- Surface and anti-corrosion coatings

Cleaning and degreasing



Cleaner S

Cleaner S removes oily and greasy soiling from all metals, ceramics, glass and most plastics. It may, however, attack the surface of thermoplastics such as PVC, plexiglas, polystyrene, and simple paint coats. WEICON Cleaner S evaporates quickly and, unlike conventional thinners, without leaving residues.

Areas of application

- as pre-treatment before priming and coating/painting
- for cleaning of machine parts and tools
- as pre-treatment before use of other products, when a greasy surface would affect performance

WEICON Workshop Cleaner

Workshop Cleaner cleans and degreases all metals, plastics, types of rubber, glass, ceramics and wood. It removes grease, oil, resin, rust, wax, nicotine, insect dirt, bitumen and tar specks.

Workshop Cleaner is free of solvent, emulsifier and phosphate as well as oil removal accommodating (ÖNORM B 5105) and, in accordance with EC-guidelines, biodegradable. By designated use the requirements of the German Food and Consumer Goods Laws are fulfilled. It is highly concentrated and can be watered down to the proportion 1:40 (max.).

Areas of application

- machines and all kinds of tools
- work shop facilities e.g. work benches, shelves, sliding doors, industrial flooring
- motor vehicles, e.g. forklift trucks, pallet trucks, lorries, indoor transporters
- motor parts, e.g. oil sumps, valve covers, starters, generators

Workshop Cleaner contains selected foamless tenside and, in addition to manual cleaning, can be used in high-pressure cleaners, part washing machines and spray apparatuses (e.g. Pump Dispenser WPS 1500). Special ingredients provide temporary corrosion protection.



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WEICON Bremsenreiniger

Brake Cleaner is a multi-purpose cleaner especially for the automotive sector. Unlike conventional thinners, WEICON Brake Cleaner evaporates quickly without leaving residues. It quickly cleans and degreases metals, glass, ceramics and many plastics.

Areas of application

Removes oily and greasy layers and residues

- on brakes (drum and disk brakes, linings, brake pads, cylinders, springs and bushes)
- on clutches (clutch linings and components)
- on engine components (carburetors, fuel and oil pumps, transmissions etc.)



Lubrication, care and maintenance

WEICON AT-44 Allround Fluid with Teflon®

WEICON AT-44 Allround Fluid with Teflon® is used in all sectors of industry and workshops. By its special formula (extremely low friction coefficient due to a high content of Teflon® = PTFE) the product combines effectiveness in corrosion prevention, cleaning, water displacement, lubrication and preservation.



Teflon® = registered brand name E.I. DuPont

Areas of application

- loosens seized threads, bolts, fittings and valves
- displaces moisture from electrical leads
- prevents leak currents and facilitates starting of damp engines
- eliminates squeaky and creaky noises on hinges, guides, bearings and all kinds of joints and couplings
- cleans contaminated surfaces and leaves a very thin film which does not smear, is not sticky and repels dust
- protects and preserves tools, machines, electrical and mechanical precision equipment (measuring tools, locks and weapons) and keeps them operational

WEICON AT-44 is strong, silicone-free and resists all atmospheric influences. Therefore, it is suitable for almost unlimited applications in workshops, the automotive industry, the marine and electrical industry, agriculture, households and for hobbies.

WEICON W 44 T Turbo-Power-Fluid

WEICON W 44 T Turbo-Power Fluid is a product for all servicing and maintenance works. By its special formula and excellent penetrating properties the product combines effectiveness in corrosion prevention, cleaning, water displacement, lubrication and preservation. W 44 T offers good resistance against atmospheric influences.



Areas of application

- loosens seized threads, screws, bolts, fittings and valves
- displaces moisture from electrical leads, prevents leak currents and facilitates the starting of damp engines
- eliminates squeaky and creaky noises on hinges, guides, bearings and all kind of joints and couplings
- cleans contaminated metal surfaces and leaves a long lasting very thin film which does not smear, is not sticky and repels dust
- protects and preserves tools, machines, electrical appliances and mechanical precision equipment and keeps them operational

WEICON Silicone

An ideal sliding and release agent for efficient production and maintenance. At the same time, it protects and preserves plastics, rubbers and metals.

Areas of application

- prevents the build-up of adhesive residues on presses and guides
- prevents products from sticking to conveyor belts, chutes and slideways
- protects electrical contacts from moisture
- preserves rubber, plastic and metal parts
- prevents embrittlement, freezing and sticking of rubber parts
- ensures smooth operation of car sunroofs, seat rails and safety belts

Silicone provides a long-lasting separating film and a good surface finish.



WEICON Bio-Cut

Bio-Cut is a cooling lubricant which is not water-miscible and is primarily used for the metal cut and non metal cut processing of low to highly alloyed steel, stainless steel, aluminium and nonferrous heavy metal.

This high-performance product is free of mineral oil and fully biodegradable. Bio-Cut protects machines and fixtures against corrosion for a long time.

Areas of application

- drilling, turning, tumbling
- milling, broaching, sawing
- punching, bending, pressing
- tapping of all steel qualities, cast iron, stainless steel, copper, brass, aluminium and their alloys

Active environmental protection as it does not contain chlorine, sulphur, barium, lead, cadmium, nitrite, PCB and formaldehyde.

WEICON Stainless Steel Care Fluid

Especially developed for cleaning, care and protection of mat and glossy stainless steel surfaces indoor and outdoor. Antistatic effect.

Areas of application

- removes and prevents finger marks
- removes grease films
- cleans without stripe-marks also larger surfaces
- makes treated surfaces look new
- leaves a long-lasting water-repellent protective film
- prevents dirt from sticking to surfaces again



New



WEICON Metal-Fluid

New high-performance product for care, protection and cleaning of mat and glossy metal surfaces, such as stainless steel, aluminium, chrome and bright metals etc., indoors.

Also available as a 700 ml pump dispenser.

Features

- preventative protection for new metal parts
- leaves a hand-dry and glossy protective film
- makes treated surfaces look new
- silicone, oil and solvent free
- neutral odour
- antistatic effect and protection against new soiling
- temperature resistance from -10°C to +150°C

Metal-Fluid also cares, protects and cleans ceramic, wood, glass and plastics and is NSF*-registered. Etched and printed inscriptions as well as plastic surfaces and rubber valves, e.g. in the kitchen area, will not be attacked.

* NSF = Nonfood Compounds Registration Programme.



WEICON Bio-Fluid

Bio-Fluid is a resin, acid and solvent free, medical-grade, water-coloured lubricant, that has been specially developed for use in the food, beverage, pharmaceutical and cosmetic industries.

WEICON Bio-Fluid is odour-free, does not affect taste, is temperature resistant from -25°C to $+120^{\circ}\text{C}$, water-repellent and has excellent creeping properties. Hinders friction and wear and tear.

Areas of application

- lubrication and care of precision mechanisms of food technology
- as a lubricant in pharmaceutical production machinery
- on filling machines in the cosmetic industry
- slow moving drive chains and conveyer belts (e.g. in airports)
- as a lubricant in packing and filling equipment
- any parts where occasional technically unavoidable contact with food cannot be excluded

The following plastics and elastomers will not be affected: ACM, CSM, FKM, NBR, SQM/MVQ, ABS, CA, EPS, PA, PC, PE, PET, POM, PP, PPO, PTFE, PVC.

Not resistant are: CR, EPDM, NR, SBR, PS, PUR, TPE.

Bio-Fluid:

- fulfils the requirements of the 'German Pharmacopeia (DAB 10)
- USDA¹ H1 approval for the direct contact with food
- US FDA² positive list (in accordance with formulation)
- US FDA² - purity certification 21 CFR 178.3620 (a)

¹ United States Department of Agriculture

² United States Food and Drug Administration

Release and separating

WEICON Mould Release Agent

Silicone-free sliding and release agent. Its special formulation of only pure natural products provides superior sliding properties and prevents adhesion to plastics, moulds, metals and tools.

Temperature resistance from -20°C up to $+130^{\circ}\text{C}$.

Areas of application

Various types of plastic processing including

- injection moulding
- compression and vacuum moulding

Mould Release Agent is free of PCB, CFC and formaldehyde.



WEICON Bio-Welding Protection

Prevents the build-up of weld spatter on gas nozzles and facility surfaces without affecting the quality of the welding seam. Free of chlorocarbons, other solvents and silicones.

Based on hazelnut and sunflower extract – biodegradable in line with EC-guidelines.

Areas of application

- prevents spatter adhesion to gas nozzles and surfaces adjacent to the weld
- provides full-surface protection during welding
- eliminates need for cleaning of welded parts with spatulas, brushes or chisels
- subsequent finishing processes such as bronzing, galvanization, anodizing or painting is possible without particular cleaning. Excess residues of the sprayed-on product merely has to be removed with e.g. WEICON Cleaner Spray S.

WEICON Rust Loosener

Rust Loosener with its 6-fold function is an indispensable aid in all repair, maintenance and servicing jobs. Temperature resistant from -20°C to + 150°C.

Areas of application

- loosens rusted or stiff parts, screws, bolts, joints and hinges
- displaces water from ignition systems
- ensures the function of mechanical parts and contacts, e.g. on distributor caps and spark plug connectors
- protects permanently against corrosion and oxidisation
- lubricates sliding surfaces
- cleans and services metal surfaces, mechanical parts and electrical equipment



Rust Loosener has excellent creeping properties, thus penetrating even the smallest cavities.

WEICON Leak Detector



For fast, convenient and reliable location of even the smallest leaks (cracks or porous parts) in pressurized pipes or tanks. WEICON Leak Detector is non-flammable, non-corrosive, does not cause skin irritation and is DIN-DVGW-tested.



Areas of application

- wherever compressed air, natural gas or liquid gas is processed
- wherever leakages can occur on fittings, threaded joints and connections
- on pneumatic brake lines and gas lines for increased safety

Leak Detection does not form hazardous compounds in contact with carbon dioxide (CO₂), propane, butane, acetylene, oxygen, coal gas or natural gas. Temperature resistance is between 0°C and +50°C.

Surface and anti-corrosion coatings



WEICON Corro-Protection

WEICON Corro-Protection forms a dry, wax-like protective film which provides lasting protection of metal tools and precision parts for indoor storage and overseas shipment.

Areas of application

- as reliable corrosion prevention for bare metal parts
- for indoor storage of metallic materials
- as corrosion prevention for overseas shipment
- preservation of tools and precision parts

The protective film can be easily removed if necessary (e.g. using WEICON Cleaner S or Workshop Cleaner).



Technical Data

Product \ Properties	Colour	Odour	Temperature resistance	Shelf life min. (Months)*	Special features	Suitable for use with	
						WSD 400	WPS 1500
Cleaner S	clear	orange	---	24	evaporates without leaving residues	++	--
Workshop Cleaner	blue	almost odourless	+5°C to +90°C	24	solvent-free, oil removal accommodating, biodegradable	--	++
Brake Cleaner	clear	citrus	---	24	evaporates without leaving residues	++	--
AT-44	yellowish	vanilla	-34°C to +210°C	24	high-performance lubricating oil - with Teflon®	++	++
W 44 T	yellowish	vanilla	-34°C to +210°C	24	multi-function oil - with multiple effects	++	++
Silicone	clear	solvent	-50°C to +250°C	24	silicone oil	++	++
Bio-Cut	clear	almost odourless	max. +200°C	24	mineral oil-free, easily biodegradable	+	--
Stainless Steel Care Fluid	clear	solvent	-20°C to +130°C	24	antistatic effect, especially for outdoor use	++	++
Metal-Fluid	milky	almost odourless	-10°C to +150°C	24	antistatic effect, especially for indoor use	++	++
Bio-Fluid	clear	almost odourless	-25°C to +120°C	24	meets requirements of DAB 10, USDA H ¹ , FDA, FDA positive list	+	+
Mould Release Agent	clear	solvent	-20°C to +130°C	24	silicone-free	++	++
Bio-Welding Protection	milky	almost odourless	+5°C to +90°C	24	non-flammable, silicone-free	++	++
Rust Loosener	beige	petroleum	-20°C to +150°C	24	6-fold function	++	++
Leak Detector	milky	almost odourless	0°C to +50°C	24	approved for gas piping by German DVGW, suitable for oxygen and CO ₂	++	++
Corro-Protection	clear	solvent	-20°C to +80°C	24	RWTÜV-tested, wax-based	++	++

* With a constant room temperature of +20°C and stored in a dry area. This is valid for closed original packagings which are subject to neither direct, nor indirect, sunlight.
Teflon® = registered brand name E.I. DuPont

++ Processing possible + Processing only possible in spray form - No processing

Technical Data

Product \ Properties	WSD 400	WPS 1500
Container volume:	600 ml	1500 ml
Max. Filling amount:	400 ml	1300 ml
Working pressure:	10 bar	4 bar
Explosion limit:	80 bar	---
Deformation pressure:	65 bar	---
Material:	Container and spray nozzle made of aluminium	Container made of non-breakable polyethylene; spray nozzle and devices made of polypropylene, fibre optic strengthened polyamide and stainless steel

WEICON Brushable Liquid Zinc Paint

The Zinc Paint is based on spherical (ball formed) zinc pigments in a concentration of approx. 92-93% in the dry film and on a mixture of binding agents made of artificial resins. The resulting properties provide corrosion protection in line with the former DIN 50976 norm (edition 03/1980) for all metal surfaces and also fulfil the higher requirements of the new DIN EN ISO 1461.

The cathodic corrosion protection is achieved through an electro-chemical sealing-up effect of the ingredients, which are exactly modulated to each other.

Areas of application

- as highly effective anti-rust primer, e.g. for WEICON metal coatings
- for touching-up drilled, cut or welded sections
- as conductive intermediate layer in spot welding
- wherever metal and particularly hazardous areas of parts, like threads, edges, screws and nuts, must be protected against corrosion.



WEICON Brushable Liquid Zinc Coating

The Zinc Coating is based on strictly pure zinc and aluminium pigment flakes, which have been produced in a special process. As well as protecting against cathodic corrosion it also provides a good barrier effect ('shingle' effect).

The ingredients, which are in a perfect blend, have the effect that the zinc flakes deposit themselves in the lower layer and the aluminium flakes in the upper layer. This results in a colour tone which, on the whole, matches hot galvanizing.

Areas of application

- repairs of hot galvanized parts in matching colour
- as rust protection base, e.g. for coats of varnish
- for coating welded and drilled areas, e.g. on galvanized metal sheets
- as conductive intermediate layer in spot welding
- wherever metal must be protected against corrosion

Technical Data

Product	Properties	Zinc Paint	Zinc Coating
Colour / Appearance:		zinc grey / matt	aluminium / metallic glossy
Binder:		modified alkyd resin	modified alkyd resin
Pigment / Pigment purity:		ball formed (spherical) zinc pigments / Zn 98.5%	flat formed zinc and aluminium pigments / Al 99.5% und Zn 99.9%
Metal proportion in dry film:		approx. 92% zinc	approx. 70% zinc and aluminium
Specific weight:		2,00 - 2,20 g/cm ³	1,10 - 1,25 g/cm ³
Viscosity* (DIN EN ISO 2431) / Consistency:		approx. 70 s 4 mm / brushable	approx. 70 s 4 mm / brushable
Processing temperature:		+18°C to +30°C	+18°C to +30°C
Consumption:		approx. 100 - 150 ml/m ²	approx. 100 - 150 ml/m ²
Spraying consistency		15-20% with universal dilution	15-20% with universal dilution
Drying time (dust-dry)*:		30 minutes	30 minutes
Fully cured after*:		approx. 12 h	approx. 12 h
Can be painted / putted after*:		approx. 12 h	approx. 12 h
Long-term fully cured after*:		approx. 48 h	approx. 48 h
Cross cutting (DIN 53151):		cross cutting characteristic value GT 0 to GT 1	cross cutting characteristic value GT 0 to GT 1
Salt spray test (DIN 50021, DIN 53167):		>240 h	>240 h
Mandrel bending test (DIN EN ISO 1519):		no hairline cracks	no hairline cracks
Temperature resistance after having fully cured:		approx. +500°C	approx. +300°C
Base:		not necessary	if necessary with Zinc Paint
Cover coating:		is recommended, e.g. with Zinc Coating	not necessary
Storage stability**:		12 - 18 months	12 - 18 months
Available as:		375 ml and 750 ml can	375 ml and 750 ml can

* At +20°C can and surface temperature and 50% relative air humidity.

** At a constant room temperature of +20°C and with dry storage. This is valid for closed original packages which are subject to neither direct, nor indirect, sunlight.

Supplementary Products

WEICON WSD 400 Pressurized-Air Spray Can

WSD 400 is a refillable spray can from which most WEICON Technical Liquids can be applied. The can is fillable with compressed air via an adapter (accessories) from the compressed-air ductwork system (optimum working pressure 5-10 bar).

The use of WSD 400 offers many advantages, e.g.:

- environmentally friendly thanks to reusability
- economical due to the use of liquids in bulk
- only the pure fluid is sprayed
- safe due to the non-flammable propellant (compressed air)
- easy to handle, quickly refillable



The following accessories for WSD 400 are available:

- an adapter for filling from every compressed air system
- a valve set with four different valves and a ball pump with intake pipe



WPS 1500 Pump-Dispenser

WPS 1500 is a refillable pump dispenser in which many WEICON Technical Liquids can be used. The building-up pressure in the fluid container is achieved by pumping pure air with the pump rod. An integrated security valve opens automatically as soon as the allowed pressure (max. 4 bar) has been exceeded.

Activation of the spray button is enough to achieve steady, uniform fluid emission. By turning the nozzle screw the rate at which the spray is emitted and the sprayed amount can be smoothly regulated, from stream-like to cloudy-fine. The use of WPS 1500 offers many advantages, e.g.:

- environmentally friendly thanks to reusability
- economical due to the use of liquids in bulk
- only the pure fluid is sprayed
- safe due to the non-flammable propellant (compressed air)
- easy to handle, quickly refillable



The following accessories for WPS 1500 are available:

- 30 cm plastic extension with 0.8 mm diameter nozzle
- Sealing sets



Technical Liquids

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