



Products and services for metalworking

-  Cooling Lubricants
-  Machining Oils
-  Electrical Discharge Machining
-  Metal Cleaners
-  Corrosion Protection
-  Industrial Lubricants
-  Service & Accessories



Management
System
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The characteristic data given are guiding values, but not specification data.

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■ Ehingen Site

The company's headquarter is located in Ehingen. Business activities are distributed to three plants, which encompass production, logistics and administration.



Production



Laboratory



■ Deißlingen Site

The Deißlingen site serves as a transshipment warehouse with incorporated administration.



Warehouse in Deißlingen

Portfolio extract Cooling Lubricants



Product

Description

ZET-cut 4100

DERMATOLOGICALLY TESTED

ZET-cut 4100 has proven itself as an all-rounder in the field of **amine-free** cooling lubricants. Thanks to the selected raw materials, the product is very skin-friendly.

ZET-cut 9800

LABEL-FREE

DERMATOLOGICALLY TESTED

This cooling lubricant is characterised by **good rinsing properties and low formation of residues**. Suitable for the general machining of steel and aluminium alloys.

ZET-cut 9705

DERMATOLOGICALLY TESTED

Mineral oil-based grinding product with **optimum rinsing effect**.

ZET-cut 9808

DERMATOLOGICALLY TESTED

This product is used in particular in the machining of **non-ferrous metals** and is characterised by an **effective inhibitor** that prevents the deposition of copper ions. Machines and parts remain free from bothersome deposits.

ZET-cut 9240

DERMATOLOGICALLY TESTED

High-performance emulsion for heavy-duty machining of aluminium and steel alloys. Due to a selected amine combination, the product has **very good stability**. **An expert's report on cytotoxicity** exists for this product.

ZET-viscowas 43

DERMATOLOGICALLY TESTED

Mineral oil-free machining fluid with outstanding cooling and lubricating properties for the heavy-duty machining of aluminium and stainless steels. On account of its low pH-value it is very **skin-friendly**. **An expert's report on cytotoxicity** exists for this product.

ZET-viscowas 10

DERMATOLOGICALLY TESTED

Special solutions are required for the **grinding of carbides**. ZET-viscowas 10 reliably prevents the release of cobalt from the carbide matrix.

ZET-cut 521

DERMATOLOGICALLY TESTED

For all common grinding operations on steel and its alloys. The product has **very good stability** and is **low-foaming**.

ZET-viscodraw 43/8

DERMATOLOGICALLY TESTED

Conceived for the **wire drawing** of **copper and copper alloys** on multi-wire machines up to a final diameter of 0.15 mm.

ZET-viscowas 43 AERO

DERMATOLOGICALLY TESTED

Special solutions for high-purity applications. In professional cleaning, **optimum cleaning results** are achieved for components in **high vacuum**.

All products listed are free from boric acid and formaldehyde.

	Turning	Milling	Drilling	Thread cutting	Deep-hole drilling	Grinding	Sawing	Wire drawing	High-Purity	Non-ferrous metals	Aluminium	Steel	Stainless steel	Carbides
	Application									Material				
ZET-cut 4100	++	++	++	++	+					++	++	++	++	
ZET-cut 9800	++	++	++	++	+		++				++	++	++	
ZET-cut 9705	+	+	+			++						++	++	
ZET-cut 9808	++	++	++	+	+					++		+	+	
ZET-cut 9240	++	++	++	++	++		++				++	++	++	
ZET-viscowas 43	++	++	++	++	++	+	+				++	+	+	
ZET-viscowas 10						++				++				++
ZET-cut 521						++						++	++	
ZET-viscodraw 43/8								++		++				
ZET-viscowas 43 AERO	++	++	++	++	++	+			++	+	++	+	+	

Portfolio extract Machining Oils



Product

Description

ZET-cut 6006 GTL

Universally usable cutting oil on the basis of state-of-the-art GTL (gas-to-liquids) base oil technology for the light to medium-duty machining of non-ferrous and light metals as well as steel. The product is light-coloured, odourless and extremely oil mist-reduced.

ZET-cut 620

Very high-performance cutting oil for the demanding machining of steel and its alloys. The product contains excellent wear-protection additives.

ZET-cut 630

High-performance product for the machining of hard and tough ferrous materials up to tempered steels. Difficult machining processes such as hobbing or thread cutting are also reliably mastered.

ZET-cut 6070 GTL

DERMATOLOGICALLY TESTED

This GTL-based product is **crystal-clear** and can be used for the machining of steels, non-ferrous metals and aluminium. An expert's report on cytotoxicity exists for this product.

ZET-cut 6040 GTL

This high-performance GTL-based cutting oil is ideal for machining as well as the **deep and tooth flank grinding** of high-alloyed steels. An expert's **report on cytotoxicity** exists for this product.

ZET-grind TT 200

DERMATOLOGICALLY TESTED

GTL-based **low-viscosity grinding oil** for carbides and other materials.

ZET-cut 688

For the **broaching and gear cutting of high-alloyed steels** or for heavy duty machining work such as **thread-forming**.

ZET-cut 678

Low-viscosity **deep-drilling** oil for difficult machining work. Despite its low viscosity, the product exhibits only very low evaporation losses. It is based on highly refined base oil

ZET-stanz 57

Special lubricant for the **punching of metal plates** up to approx. 6mm. The product evaporates **without leaving residues**. Parts can be painted over without cleaning.

ZET-cut 169

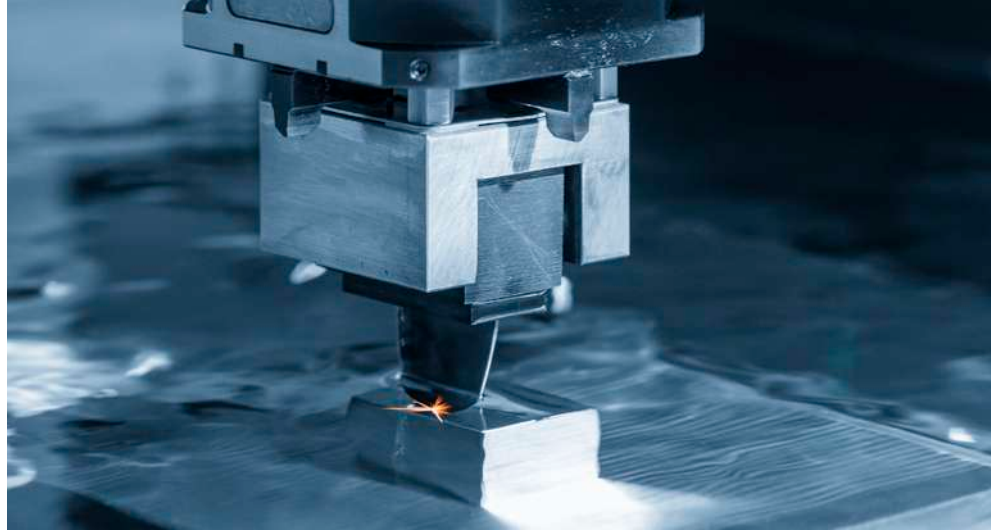
Special oil for the **forming** and punching of metal alloys that are difficult to machine.

ZET-cut MS 1054

Minimum-quantity lubricant on a fatty alcohol basis for the machining of aluminium. Leaves practically no oil film behind on parts.

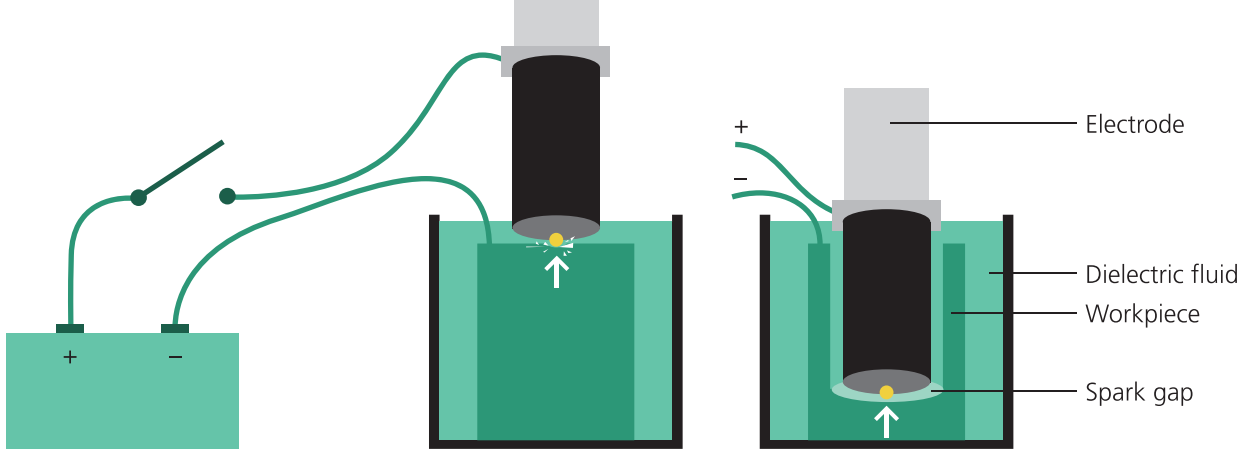
	Turning	Milling	Drilling	Thread cutting/forming	Deep-hole drilling	Grinding	Sawing	Punching	Forming	Honing/lapping	Non-ferrous metals	Aluminium	Steel	Stainless steel	Carbides
	Application										Material				
ZET-cut 6006 GTL	++	+	+								++	++	+		
ZET-cut 620	++	++	+								++	++	++	++	
ZET-cut 630	++	++	++	++							+	++	++	++	
ZET-cut 6070 GTL	++	++	++	++	+						++	++	++	++	
ZET-cut 6040 GTL	++	++	++	++	+	+						++	++	++	
ZET-grind TT 200						++					++	++	++	++	++
ZET-cut 688	+	+	+	++	++					++			++	++	
ZET-cut 678	++	++	++		++					++	+	++	++	++	
ZET-stanz 57								++			++	++	++		
ZET-cut 169								++	++				++	++	
ZET-cut MS 1054							++				++	++			

Portfolio extract Electrical Discharge Machining



Product	Description
ZET-Dielectric 110 (die sinking)	High-purity premium dielectric fluid for finishing and roughing work. Crystal-clear and odourless. Excellent rinsing performance, very good skin compatibility and low electrode wear.
ZET-Dielectric 101 (die sinking)	Optimum rinsing performance, very good sedimentation behaviour and filterability, odourless and colourless, high resistance to aging and good skin compatibility.
ZET-Dielectric 130 (die sinking)	High-abrasion dielectric fluid for roughing work, high work safety due to high flashpoint, maximum dielectric strength, low evaporation, odourless.
ZET-Dielectric 74 (ultra-fine/wire EDM)	Low-viscosity special dielectric fluid for wire EDM* machines (e.g. Vollmer QWD and VPuls 500), significantly reduced refill quantities due to optimised flashpoint/viscosity ratio, crystal-clear, odourless and practically free from aromates.
ZET-Dielectric 56 (micro EDM)	Dielectric fluid for starting hole EDM and micro-drilling, very good shape and dimensional stability, optimised process speed, low viscosity to support the rinsing effect and very good filterability.
ZET-grind 130 multi (special applications)	Multifunction dielectric fluid for grinding and disc erosion, no cobalt leaching, low electrode wear, excellent rinsing properties, low-mist and low-odour.

*EDM: Electrical Discharge Machining



Benefits

- High-purity, crystal-clear media thanks to careful selection of raw materials
- Regular state analyses in our own laboratory
- Reduced refill quantities due to low evaporation
- Low workplace exposure due to reduced outgassing
- Optimum flashpoint/viscosity ratio
- Best possible skin compatibility with low evaporation tendency
- Odourless media
- Highest surface qualities
- Reduced electrode wear
- Optimum rinsing properties

	State / appearance	Viscosity at 20 °C [mm ² /s]	Flashpoint [°C]	Density at 15 °C [g/cm ³]
ZET-Dielectric 110	Highly pure / clear	3,0	> 103	0,79
ZET-Dielectric 101	Highly pure / clear	4,0	> 100	0,79
ZET-Dielectric 130	Highly pure / clear	5,7	130	0,78
ZET-Dielectric 74	Highly pure / clear	1,9	> 78	0,76
ZET-Dielectric 56	Highly pure / clear	1,7	> 61	0,76
ZET-grind 130 multi	Highly pure / clear	7,5 at 40 °C	169	0,81

Portfolio extract Metal Cleaners

Produkt	Beschreibung
ZET-clean 8-10	Cold cleaner for degreasing steel, aluminium and non-ferrous metals, evaporates very quickly. Flashpoint < 10 °C
ZET-clean 25	Low-aromatic cold cleaner for degreasing steel, aluminium and non-ferrous metals. Flashpoint > 23 °C
ZET-clean 56 S (= BEKUCLEAN 60)	Isoparaffin-based, fast evaporating cleaner for automatic metal cleaning machines. Flashpoint > 56 °C
ZET-clean 57	Isoparaffin-based cold cleaner, odourless, for the general degreasing of metals. Flashpoint > 62 °C
ZET-clean 78 BIO	Biodegradable cold cleaner, dissolves oil and grease well, water-miscible. Flashpoint 17 °C
ZET-clean 82	Plant cleaner on the basis of modified alcohols with a high solvent action for residue-free drying . Toxicologically harmless. Flashpoint > 62 °C
ZET-Reiniger 250 S	Neutral spray cleaner for stainless steel and aluminium alloys. Low-foaming from 45 °C, very gentle on materials. Well suited for all types of spray degreasing machines.
ZET-Reiniger 300 S	Alkaline spray cleaner for intermediate and final cleaning . Suitable for all materials. Foaming from 35 °C.
ZET-Reiniger 132/1	Highly alkaline cleaner that also removes burnt-in oil residues or stubborn contaminants such as polishing paste.
ZET-Reiniger 188	Universally usable water-miscible cleaner for general machine cleaning and immersion degreasing. Usable in ultrasonic baths.

	Solvent-based	Aqueous	Immersion	Spray	Manual	Ultrasound	Vapour degreasing	Steel	Non-ferrous metals	Aluminium	Evaporation rate	Corrosion protection	pH-value (c = 3 %)
	Properties		Application					Material			Characteristics		
ZET-clean 8-10	✓		++		++			++	++	++	6		
ZET-clean 25	✓		++		++			++	++	++	30		
ZET-clean 56 S *	✓		++	++	++		++	++	++	++	87		
ZET-clean 57	✓		++	++	++	++		++	++	++	110		
ZET-clean 78 BIO	✓				++			++	++	++	17		
ZET-clean 82	✓		++			++	++						7,1
ZET-Reiniger 250 S		✓	+	++		+		+	++	++		+	8,3
ZET-Reiniger 300 S		✓	+	++	++	+		++	++	++		++	9,7
ZET-Reiniger 132/1		✓		++	++			++	++	++		+	12,3
ZET-Reiniger 188		✓	++		++	++		++	++	++		+	11,8

* = BEKUCLEAN 60

Portfolio extract Corrosion Protection



Product

Description

ZET-corr 810

For dewatering parts that have been machined beforehand with water-miscible cooling lubricants. Leaves practically no film behind and is odourless.

ZET-corr 812

For the intermediate storage of parts. Leaves behind an easily removable, thin, oily anti-corrosion film.

ZET-corr 814

High-performance corrosion protection for spraying or immersion. Leaves behind an oily to greasy film with a long-lasting effect.

ZET-corr 815

Leaves behind a greasy anti-corrosion film with a long protection duration. Suitable for spraying and immersion.

ZET-corr 818

This dewatering fluid leaves behind a very effective micro-molecular anti-corrosion film.

ZET-corr 830

Anti-corrosion oil for oiling metal plates or parts. The product is free from solvents and VOCs. The film left behind is easily removable.

ZET-corr P1

Thixotropic anti-corrosion paste for applications requiring minimal draining behaviour. The product can replace hot-dip products and is also suitable for corrosion protection during overseas transport.

ZET-corr 600 E

Water-emulsifiable anti-corrosion concentrate for all metals. When prepared as a 10 % solution in water, ZET-corr 600 E leaves behind an outstanding anti-corrosion film. Can also be used hot.

Anti-corrosion concentrates

ZET-Rostschutzkonzentrat 500/S

For the **doping** of anti-corrosion baths in cleaning plants in the last tank.

ZET-corr KS 1

Anti-corrosion concentrate suitable for **pressure testers or cooling water circuits**.

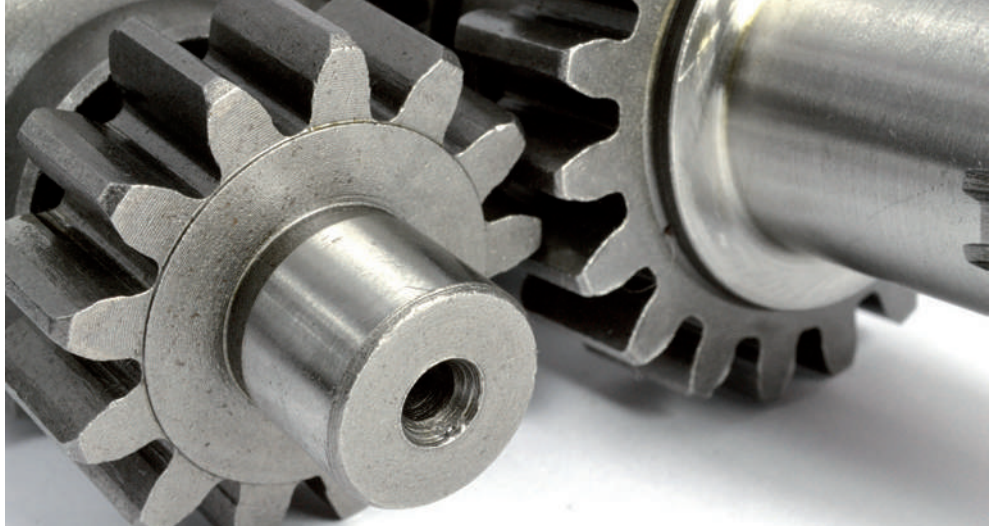
	Micro-molecular	Oily	Vaseline-like	Waxy	Solvent-based	Oil-based	Emulsifiable	Dewatering	Flashpoint [°C]	
	Type of film				Properties					Corrosion protection duration**
ZET-corr 810	✓				✓			✓	> 62	approx. 2 weeks
ZET-corr 812		✓			✓			✓	> 62	approx. 6 months
ZET-corr 814			✓		✓			✓	> 62	approx. 8 months
ZET-corr 815					✓			✓	> 62	approx. 10 months
ZET-corr 818		✓			✓			✓	> 62	approx. 12 months
ZET-corr 830		✓				✓			> 160	> 18 months
ZET-corr P1			✓			✓			> 200	> 24 months
ZET-corr 600 E*	✓	✓	✓	✓			✓		> 100	concentration-dependent

* The film thickness is controlled by the concentration.

** The corrosion protection duration applies to open storage places under a roof, protected against precipitation.



Markings for Lubricants



Product	Requirement Standard Classification	Remarks
Circulating oil Hydraulic oil	DIN 51524-1 H L	Good oxidation and anti-corrosion properties. Lubrication of mechanical and hydraulic systems with moderate to high loads.
Hydraulic oil	DIN 51524-2 H LP	As for H L, but with high-pressure additive. For applications with high temperatures and pressures.
Hydraulic oil	DIN 51524-3 H VLP	As for H LP, but with viscosity improver. For all hydrostatic systems with extreme pressures and very wide temperature ranges.
Hydraulic oil	DIN 51524-2 H LPD	As for H LP, but with detergent properties. For systems in which increased water absorption of the hydraulic oil is important.
Bio-hydraulic oil	DIN 15380 HE ES	Biodegradable oils on the basis of synthetic saturated esters.
Machine oil	AN	For simple lubrication points on machines.
Circulating oil Gear oil	DIN 51517-2 C L	Good oxidation and anti-corrosion properties. Lubrication of mechanical systems and bearings subject to moderate to high loads.
Industrial gear oil	DIN 51517-3 C LP	As for C L, but with high-pressure additive. For gears, bearings and couplings under high loads.
Slideway and guideway oil	DIN 51502 CG LP	Gear oils with adhesive additives. For slideway and guideway lubrication. Very good anti-stick-slip property.
Air compressor oil Compressor oil	DIN 51506 VD L	Compressor oils for screw and piston compressors.

Industrial Lubricants

Product designation	Area of use
H LP hydraulic oils	These hydraulic oils are characterised by good demulsifying properties, high aging stability and wear protection properties. They conform to DIN 51524-2. Available in the viscosity range from ISO VG 2 - 150.
H LPD hydraulic oils	Hydraulic oils according to DIN 51524-2 with very good detergent/dispersal properties and wear protections. Available in the viscosity range from ISO VG 5 - 150.
H VLP Hydraulic oils	For hydraulic systems in which minimal changes in viscosity are required with changing operating temperatures. The products conform to DIN 51524-3. Available in the viscosity range from ISO VG 15 - 68.
C LP industrial gear oils	High-performance gear oils for all areas of industry. The products conform to DIN 51517-3. The damage load stage is greater than 12. Available in the viscosity range from ISO VG 5 - 680.
CG LP slideway / guideway oils	Lubricants for guideways and guide rails that reliably prevent stick-slip. The mixing of cooling lubricants is avoided through good demulsifying properties. The products conform to DIN 51502. Available in the viscosity range from ISO VG 32 - 460.
VD L compressor oil	Compressor oils with low evaporation losses and high ageing stability according to DIN 51506. Used in piston and rotary compressors in accordance with the manufacturer's instructions. Available in the viscosity range from ISO VG 68 - 150.
Spindle oils	Paraffin-based machine oils for the lubrication of spindles in machine tools. The products are oxidation-stable and water-white. Available in the viscosity range from ISO VG 2 - 32.
Lubricating greases	Multi-purpose greases, liquid greases, bearing greases, high-temperature greases and silicone greases in all NLGI classes and all container sizes from cartridges to drums.
Specialities	Food-safe lubricants, white oils, biodegradable lubricants, heat transfer oils, cylinder oils, chain oils, etc

Accessories



Product

Description

Skin care

Skin care products for handling water-miscible cooling lubricants and machining oils.

Refractometer, test strips

For measuring concentration, pH-Value, nitrite, copper, cobalt, etc. in water-miscible cooling lubricants.

Mixing equipment

Drum attachments for mixing water-miscible cooling lubricants.

Spray range

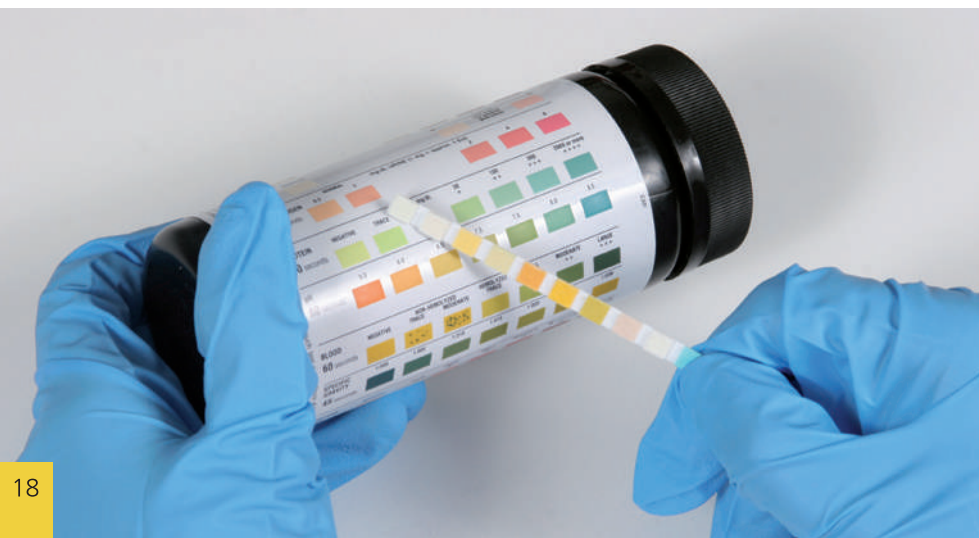
Penetrating oil, fine conditioning oil, conditioning and anti-rust oil, metal degreaser, cutting oil EP spray, copper spray, release agent spray, silicone spray, welding bead release agent, etc.

Maintenance equipment

External oil separator, oil skimmer for extending the service lives of emulsions.

Oil binder

White granulate in two different granulations. Highly absorbent, incombustible, packed in 25-kg sacks.



Service

Laboratory

In our fully equipped laboratory, we

- develop tailor-made products for you
- provide analytical monitoring of lubricants during their use
- carry out extensive quality checks

Transport

Thanks to our own fleet of vehicles or in-house freight carrier, we

- can deliver at short notice
- take back your empty containers
- fill your storage tanks on site

Disposal

We dispose of products delivered by us, such as

- emulsions
- cutting and grinding oils
- solvents

Cooling lubricant service

Our specialists

- measure the cooling lubricant on your machine
- document the measured values
- make corrections if necessary





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