

SERVICE LUB

MARCH 2019

PRODUCTS IN THE SPOTLIGHT

LUBRICANTS FOR CARS

OVERVIEW

A PRODUCT FOR EVERY APPLICATION

AUTOMECHANIKA 2018

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Ecoclean

Safe cleaning without bactericides.

Unil markets an eco-friendly cleaner - Ecoclean. Ecoclean is a high-quality, biocide-free cleaner for cutting fluids, circulation systems and machinery. This fluid is used for cleaning cutting fluid installations before emulsions or solvents are replaced. It also promotes the stabilisation of emulsions and solvents used which extends their life. Ecoclean also destabilises biofilms that form in pipes.

Opaljet Power FE 950 0W30

Lower CO2 emissions and oil consumption for the latest Ford engines.

For the latest Ford engines, Unil has launched Opaljet Power FE 950, a fully synthetic oil with 0W30 viscosity. This engine oil has a broad coverage due to the high viscosity index which means that oil-change intervals can be increased without any problems. Furthermore, the high resistance at high temperatures provides better control of oil consumption and less wear and tear on the engine. This oil is also perfectly suited for use in other engines that require a viscosity level of 0W30.

Form EV 883

Saving time during final processing

Form EV 883 is an evaporating metal processing fluid based on fatty alcohol that has been specially developed for processes such as bending, deep drawing, cutting, shaping, sawing and thread-cutting in steel to 5mm. Form EV 883 stands out due to its high malleability and extremely long tool life. Thanks to its low viscosity, this oil can be easily applied by spraying or drop lubrication using felt or a roller. Form EV 883 evaporates after processing, so the parts need no further degreasing

UNIL creates, innovates and informs...

For more information about our products and services please visit our website: www.unil.com





FORMALDEHYDE-FREE

Formaldehyde is a colourless gas that has a distinctive and irritating odour. It is an example of a volatile organic compound from the wider group of aldehydes. Exposure to this substance over the short and long term can be harmful to health if the correct precautions are not taken during use. That is why it is also important to always consult all safety information before using a chemical substance. To completely rule out exposure to formaldehyde, Unil Lubricants has done its utmost to optimise

its metal processing formulas to a variant which no longer requires the addition of formaldehyde. During the development of the new formulas, it was crucially important to retain the trusted quality of the products. Following years of research and testing, we are proud to launch a fully updated range of emulsions and microemulsions that are safer than ever to use.

BORON-FREE

In addition to minimising the health risks by banning formaldehyde, the impact of the products on the environment must be limited as far as possible. Although boron salts are in principle safe to use, they can have a negative impact when they find their way into the environment. To avoid this, Unil Lubricants has also created a boron-free variant for each new formaldehyde-free formula.

SUSTAINABILITY WITH FORMALDEHYDE-FREE AND BORON-FREE PRODUCTS

Safecut AERO 400

Safecut AERO 400 is a boron-free, semi-synthetic micro-emulsion that is suitable for turning, sawing, milling and drilling stainless steel and aluminium. Although this soluble oil was specially developed for the aviation industry, it can also be used for all difficult processes on these metals.

And especially for processes where the surface finish is important. With its highly specific properties and the high requirements made by the aviation industry of Unil Lubricants, this product complies with all specifications under AEROSPACE ASN 42.302. That is why this metal processing oil is also exceptionally resistant to high pressures.

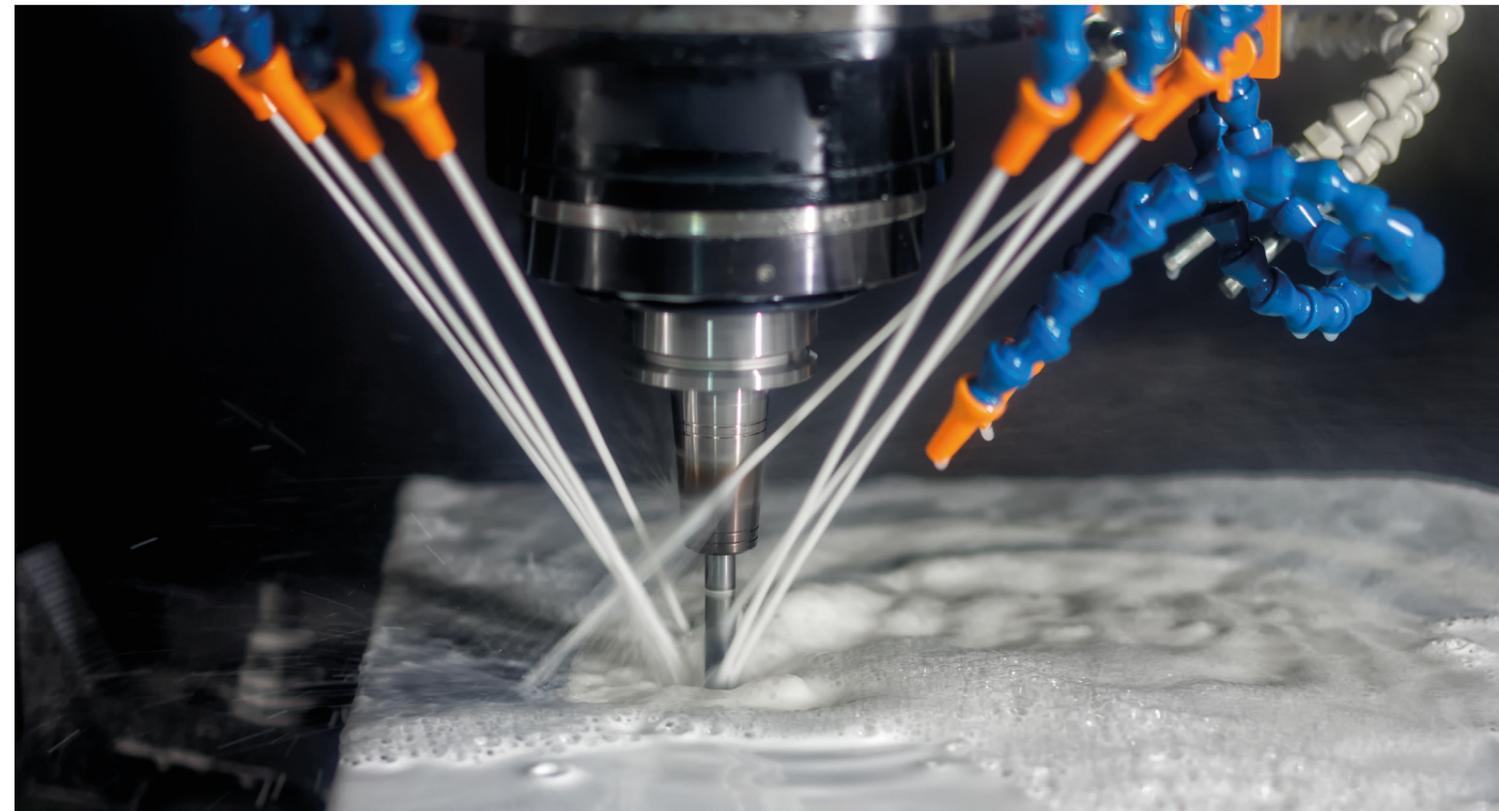
Safecut M 145 NT

Safecut M 145 NT is a boron-free, bio-stable micro-emulsion that forms a transparent micro-emulsion in water. It was designed for general processing and is suitable for both hard and medium-hard water. It is the successor to Safecut M 140 NT, and with its new additives and adapted formula offers even greater malleability with an even longer tool life and enhanced sustainability.

This oil is a universal product. It is ideal for milling, turning and tapping parts for machines such as looms and agricultural machinery.

The universality of Safecut M 145 NT is also demonstrated by the different materials that can be worked using this emulsion. For instance, it is suitable for all yellow metals, aluminium, steel and alloys, stainless steel and even titanium.

Our representatives will be pleased to provide you with more information during the Machineering trade fair from 27 to 29 March in Hall 5 of Expo Brussels.



PREVENTION IS BETTER THAN THE CURE



The formation of fungi and bacteria in the emulsion bath is the worst nightmare for metal processing machines. By taking the necessary precautions with the help of Unil Lubricants, you can outsmart bacteria formation and save yourself a lot of time, money and worry.

Do you do your own testing?

Firstly, it is important to always add

the right quantity (at least 5%) of metal processing fluid to the water in the emulsion bath. This gives optimum protection to parts and machine components against the formation of fungi, bacteria and/or corrosion.

You can keep your cooling lubricant in perfect condition by checking its condition every week. This only takes a minute and can be incorporated into the operator's weekly routine. Use a

refractometer to measure the coolant concentration in the machine.

If you suspect bacteria formation, you can use Unil Mikrocount. This self-testing unit immediately indicates the presence of bacteria in your bath.

Lab analysis

If you are in any doubt about the condition of your emulsion, you can

also take a sample and have this analysed by the specialised lab at Unil Lubricants. Unil Lubricants has developed a special analysis program, IND4, which enables it to analyse the stability, breaking index, acidity level, corrosion value and level of contamination of your emulsion.

Send us the cleanest possible 100 ml sample from your CNC machine. Unil Lubricants

can provide you with special sample packages to help you collect the best possible sample. Once the fluid has been analysed, you will immediately receive a specialised report with the diagnosis and additional recommendations for the further use of your emulsion.

Visit our stand during
Machineering and discover
the best way
to use the various tools
for optimising your emulsion.

IN BRIEF

- Using a volumetric metering pump means you are always certain you have the right concentration.
- Use a refractometer once a week to check the concentration of the emulsion.
- Immediately remove excess leak-off oil from the emulsion bath with the oil skimmer to prevent bacteria formation.
- Use the pH meter once a month or if in any doubt to check the acidity of the emulsion bath.
- Always use a disinfectant to keep the bath free of bacteria and/or fungi.

1 WATER-SOLUBLE FLUIDS

1.1 MICRO-EMULSIONS

Product	Free from:					Suitable for:						Notes	Refractometer index	% to be used in water	
	Boron	Boric acid	Secondary amines	Sulphur	Formaldehyde	Yellow metals	Al	Steel and alloys	Cast iron	Stainless steel	Ti				Mg
Safecut M 16													Perfect for cast iron	1.7	5 - 7
Safecut M 140													Good all-round micro-emulsion	1.0	5 - 10
Safecut M 170 NT													Low foaming	1.9	5 - 7
Safecut M 145 NT													Boron-free Safecut M 140	1.2	5 - 10
Safecut M 175 NT													Boron-free Safecut M 170 NT	1.9	5 - 7
Safecut Aero 405													A top quality product for aluminium, used in the aerospace sector	2	5 - 10

1.2 EMULSIONS

Product	Free from:					Suitable for:						Notes	Refractometer index	% to be used in water	
	Boron	Boric acid	Secondary amines	Sulphur	Formaldehyde	Yellow metals	Al	Steel and alloys	Cast iron	Stainless steel	Ti				Mg
Safecut E 20													All-round	1.1	5 - 10
Safecut E 209 NT													Improved lubricating capacity and EP capacity	1.0	5 - 10
Safecut E 215 NT													E 209, but without boron	1.0	5 - 10
Safecut E 25 EP													Made for specific, difficult applications	1.0	5 - 15

1.3 SOLUTIONS

Product	Free from:					Suitable for:						Notes	Refractometer index	% to be used in water	
	Boron	Boric acid	Secondary amines	Sulphur	Formaldehyde	Yellow metals	Al	Steel and alloys	Cast iron	Stainless steel	Ti				Mg
Stargrind 50													Protection against oxidation from 1% in water	2.1	5 - 10
Stargrind CO AM													Rectification of tools, enhanced with protection against cobalt scavenging	1.5	5 - 15

2 SOLUTIONS

Application	Product	Viscosity	Mg	Yellow metals	Al	Steel & Alloys	Stainless steel	Ti	Cast iron
Multiple processes:	Safelub S 702 AM	17 cSt							
	Safelub I 952 AM	21 cSt							
Standardization	Safelub I 952 AM	21 cSt							
Honing/Grinding	Safelub MG AM	9 cSt							
	Safelub DEC 2 AM	20 cSt							
Longitudinal turning	Kutilub DI AM	24 cSt							
	Kutilub FP 4 AM	15 cSt							
	Safelub I 952 AM	21 cSt							
Tapping	Kutilub DA 3 AM	32 cSt							
	Safelub RT 32 AM								
	Kutilub TF 9 W	160 cSt							
For milling aluminium with a metering system	Microspray MA AL	27 cSt							
	Microspray BIO E 22	22 cSt							
	Safelub BIO 35	35 cSt							
	Safelub BIO ST	50 cSt							

2 SOLUTIONS

Application	Product	Viscosity	Mg	Yellow metals	Al	Steel & Alloys	Stain-less steel	Ti	Cast iron
Electric discharge machining	Kutilub ER 1	2.4 cSt							
Gear grinding	Safelub MG AM	9 cSt							
	Safelub S 702 AM	17 cSt							
gear grinding	Safelub BIO E	46 cSt							
Deep drilling	Kutilub FP 4 AM	15 cSt							
Forming/punching	Form 925 CAS	30 cSt							
	Starform P 40 S	122 cSt							
Forming/Punching with evaporation	Microspray SCH	1.1 cSt							
	Form EV 770	1.6 cSt							
	Form EV 810	1.2 cSt							
	Form EV 832	1.3 cSt							
	Form EV 883	5 cSt							
	Form EV 4	1.5 cSt							

With: Free from

- = Yes
- = No

With: Suitable for

- = Suitable
- = Suitable but not ideal
- = Not suitable

MACHINEERING

MACHINES, TOOLS, MATERIALS & SOLUTIONS FOR ADVANCED MANUFACTURING & ENGINEERING

27-29/03/2019 BRUSSELS EXPO

MACHINEERING 2019

FROM 27 TO 29 MARCH – HALL 5, STAND B40, BRUSSELS EXPO



In keeping with tradition, Unil Lubricants will be in attendance in hall 5 of the Machineering trade fair in Brussels. Come along and visit us from between 27-29 March. We look forward to meeting you at stand D70.

Machineering is the new technology trade fair for engineering, metal processing, smart industry and also new materials, and grew out of the MTMS-Machineering trade fair. The fair attracts visitors from the metals and production industry. However, it also appeals to people from the machine construction and engineering sectors and industrial suppliers.

Wednesday 27 March from 10 am to 6 pm.



For free admission tickets to Machineering, register using the link at www.unil.com.

WIN 210L OF METAL PROCESSING FLUID

VISIT OUR STAND DURING THE 'MACHINEERING' TRADE FAIR AND BE IN WITH A CHANCE OF WINNING A DRUM OF METAL PROCESSING FLUID OF YOUR CHOICE!

Visit our stand (B40) at 'Machineering' in Brussels Expo between 27 and 29 March and take part in our competition to win a 210L drum of a metal processing product for your machine.

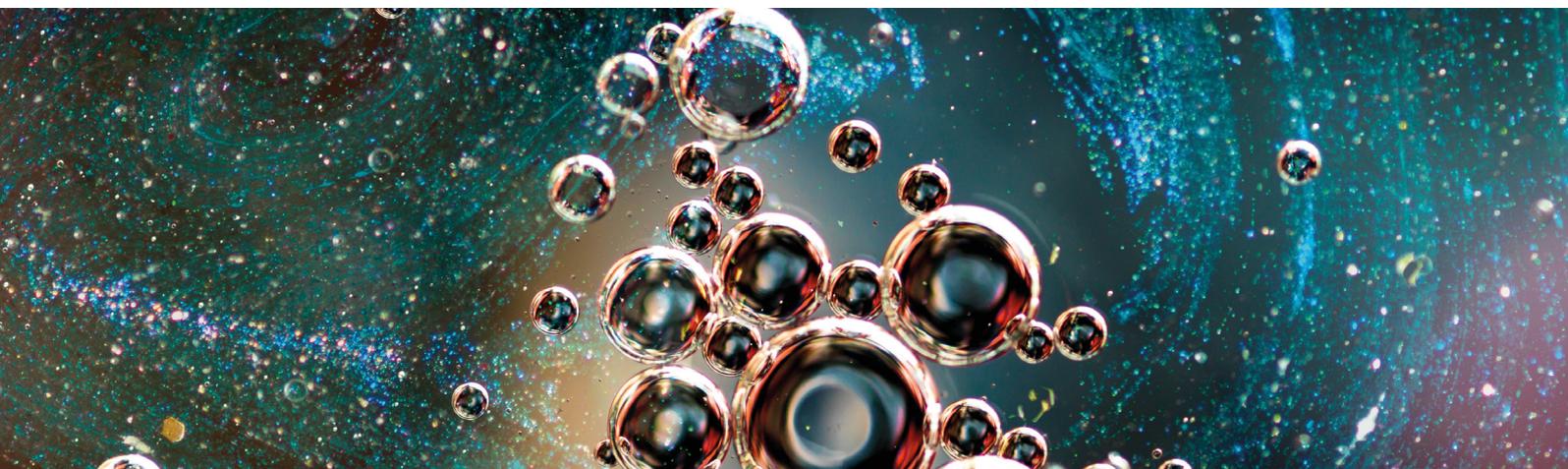
Competition:

Measure the refractometer index and concentration (we will provide the measurement instruments) of the Unil Lubricants metal processing product that will be on display on our stand. Guess which product it is and be in with a chance of winning a 210L drum with a Unil Lubricants metal processing fluid of your choice.

No need to worry if you do not win. Everyone who takes the measurements will receive a Unil Lubricants Goody Bag.

**competition terms and conditions at www.unil.com*

Win a 210L drum with a metal processing product specifically for your machine!



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