



Product range



Metalworking

High-tech lubricants made in Germany

Oest has been developing and producing lubricants since 1915. Metalworking media have been part of our range from the outset.

Today, the development and production of metalworking media for machining and forming operations are an essential core competence of Oest. In addition to the technical capacity which is perfectly adapted to each application, development places a special focus on the use of ecologically and physiologically harmless ingredients. Continuous further development and adaptation to changes in the general legal requirements, raw materials availability and technical progress always ensure modern products in line with the state of the art. Our work in associations in national and international committees and our collaboration in research projects at different institutes allow us to be involved in the solutions for future requirements.

Our know-how and customer focus ensure efficient and trouble-free processes – starting with product selection that takes into account all process requirements, close support for products in use, all the way to managing all technical questions regarding the processes. Competent global support through technically experienced local partners is the basis for the successful use of Oest metalworking media all over the world.

Our strengths

- Know-how and product quality
- Flexibility and customised problem solving
- System supplier
- Support from analysis service to total fluid management

Our objective

Maximum customer satisfaction through reliable, efficient and sustainable processes.



Products for metalworking processes

Oest products cover (nearly) all metalworking technologies: water miscible and non-water miscible cooling lubricants for machining with defined and non-defined cutting edges, spray mist lubricants for minimum quantity applications, forming lubricants with a variety of different formulations for sheet metal, tube and massive forming.

As a system supplier, Oest furthermore meets the demand for (nearly) all processing media for metalworking processes: starting with all lubricants for machine tools and forming presses through cleaning media for component cleaning to corrosion protection solutions. Our strength lies in the overall consideration of the process requirements and in the use of coordinated product concepts. This allows us to minimise interface problems and achieve best possible process efficiency.

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Water miscible cooling lubricants: Colometa

Water miscible cooling lubricants have to meet a wide range of technical requirements to ensure best possible machining results and smooth operation:

- Cutting performance for long tool life and best possible component surfaces
- Corrosion protection for machine parts and components
- Compatibility with sensitive materials for components without staining
- Stability and flushing action for clean machines and components
- Low foaming even with high cooling lubricant pressure
- and many more

In addition to the technical performance, the following are essential characteristics of Oest cooling lubricants:

- Minimising health risks for workers
- High level of acceptance through the workers due to pleasant environment and mild odour
- Preventing excessive microbial growth for long coolant life

Concentrates are therefore complex mixtures of a variety of different individual components. The development at Oest has clear objectives:

- Optimum compliance with technical requirements
- Best possible consideration of health and safety aspects and environmental concerns
- Use of future proof raw materials



Unlike any other lubricant type, water miscible cooling lubricants are subject to changes during use. Coolant life time significantly depends on the conditions during use. Developments from the research laboratory are tested on internal and external test rigs with the greatest possible practical relevance and then tested in extensive field trials. This verifies all possible aspects of the performance. The result is a performance profile which allows best possible product selection taking into account the specific requirements. This allows us to contribute to minimising the overall process costs.

Safe Processes

Beside working results and costs Safety & Stability of the processes play a significant role for metal working companies. Ongoing legal restrictions in regards of classification and use of MWF and increasing issues with availability of raw materials result in shrinking life cycle of coolant concepts. As a consequence users are frequently facing the need to adapt their processes with implementation of updated coolants. OEST breaks this trend with the development of the new coolant generation „Colometa eco“, thoroughly substituting components with existing or in the foreseeable future expected restrictions. This ensure long-term stable and safe processes for the users.



Future proof because free from FAD, MIT, Boric acid and other components which are threatened by restrictions.

Colometa ecoS: synthetics



Synthetics are oil free cooling lubricants. They consist exclusively of water soluble components which provides three essential distinguishing features compared to emulsions:

- Clear transparent: allows free view of the cutting point
- Optimum tramp oil separation due to the absence of emulsifiers
- Leaves dry surfaces

Conventional synthetics with limited lubricity are used for surface grinding operations. Additionally Oest offers most modern HD-synthetics („heavy duty“) with cover severe grinding and as well cutting and forming operations.

Colometa synthetics

SHORT DESCRIPTION

	<p>Colometa ecoS 427</p>	<p>Circular and flat grinding of ferrous metals (cast iron, steel, stainless steel).</p>
	<p>Colometa SBF-PN</p>	<p>Circular and flat grinding, universal (steel, non-ferrous metals, aluminium).</p>
	<p>Colometa SSK-H 7</p>	<p>Grinding carbides: tools, wear parts, etc.</p>
	<p>Colometa SKNF</p>	<p>Disc cutting and wire sawing of special metals (magnets, etc.).</p>
	<p>Colometa ecoS 604</p>	<p>Grinding and machining with high performance requirements, universally suitable for all materials.</p>
	<p>Colometa SHD-AN2</p>	<p>Grinding and machining with high performance requirements, universally suitable for all materials. Focus: Aviation and energy production.</p>

Colometa ecoT: semi synthetics / Colometa ecoM: higher oil content

Coolant concentrates with oil content about 10 - 50 %. Mixed with water they create fine emulsions with semi transparent to opaque appearance for use in medium severe to severe cutting operations.






Main features are:

- Suitable for mixed operations: grinding and cutting
- Low drag out and consumption
- Clean machine tools and coolant systems



Colometa semi synthetics

SHORT DESCRIPTION

	<p>Colometa ecoT 328 ecoT 329</p>	<p>Low oil content, finely dispersed emulsion for grinding and medium severe cutting operations. Focus on steels and cast iron.</p>
	<p>Colometa ecoT 433</p>	<p>Low oil content, finely dispersed emulsion for grinding and medium severe cutting operations. Focus on steels and cast iron.</p>
	<p>Colometa ecoT 435</p>	<p>Opaque emulsion, universally applicable for medium sever cutting and grinding. Focus on steels, aluminium and yellow metals.</p>
	<p>Colometa ecoT 623</p>	<p>Universal use for all materials (incl. sensitive yellow metals and aluminium) and for severe operations.</p>
	<p>Colometa ecoM 436</p>	<p>Medium coarse emulsion with high lubricity for severe cutting operations. Focus on high tensile steels, titanium- and nickel-alloys.</p>

Non-water miscible cutting oils: Meba

Compared to water mixed cooling lubricants, where the water content provides maximum cooling action, this becomes less important in non-water miscible cooling lubricants in favour of a higher lubricating action. The performance of cutting oils is determined by the viscosity and by the content and effectiveness of the active additives.

The Oest Meba product range covers the entire bandwidth of viscosities, starting with low viscosity finish oils at approx. 3 mm²/s (40 °C) to higher viscosity oils up to approx. 100 mm²/s (40 °C) for the most difficult broaching operations. Using high quality base oils and modern additive technologies, Oest develops optimum solutions for modern machining processes.

The focus points for this are:

- High cutting action for long tool life and good surfaces
- Low evaporation base oils for minimising oil mist problems and fire hazard
- High raw material qualities for optimising skin compatibility

State-of-the-art base oil technologies are used in addition to high quality mineral oils:

- Meba HC on hydrocrack basis
- Meba S based on PAO- and GTL-technology
- Meba E based on polar esters
- Meba R products are based on the highest quality regenerated base oils (Group II-III), offering a substantial contribution to the conservation of resources and drastically optimization our sustainability



Meba: cutting oils for machining with defined cutting edges

Meba cutting oils are available for all operations and materials:

Cutting oils compatible with non-ferrous metals

Selected additives combine high performance with suitability for machining sensitive non-ferrous metals or light alloys without staining.



Cutting oils compatible with non-ferrous metals

SHORT DESCRIPTION

	Meba 85xx range	Cutting oils for simple machining.	Viscosity (40 °C) 22 mm ² /s	Viscosity (40 °C) 32 mm ² /s	Viscosity (40 °C) 46 mm ² /s
	Meba M28xx range	Multi-function oils for medium duty machining and machine lubrication.	Viscosity (40 °C) 12 mm ² /s	Viscosity (40 °C) 21 mm ² /s	Viscosity (40 °C) 32 mm ² /s
	Meba 34xx range	Universal oils for medium to heavy duty machining.	Viscosity (40 °C) 13 mm ² /s	Viscosity (40 °C) 21 mm ² /s	
	Meba 29xx S 59xx S	Synthetic universal oils.	Viscosity (40 °C) 12 mm ² /s	Viscosity (40 °C) 21 mm ² /s	
	Meba 37xx-Reihe	High performance oils for heavy duty machining.	Viscosity (40 °C) 12 mm ² /s	Viscosity (40 °C) 21 mm ² /s	

Cutting oils for steel and hard-to-machine materials

Chlorine free, chemically active EP additives prevent cutting edge build-up, even on the most difficult materials such as stainless steel, nickel and titanium alloys.

Cutting oils for steel and hard-to-machine materials

SHORT DESCRIPTION



	Meba 358x range	Universal oils for medium duty machining.	Viscosity (40 °C) 12 mm ² /s	Viscosity (40 °C) 25 mm ² /s	Viscosity (40 °C) 40 mm ² /s
	Meba 372x range	High performance oils for machining stainless steel.	Viscosity (40 °C) 11 mm ² /s	Viscosity (40 °C) 16 mm ² /s	Viscosity (40 °C) 27 mm ² /s Viscosity (40 °C) 40 mm ² /s
	Meba xxxx M range	Special oils for medical implants.	Viscosity (40 °C) 11 mm ² /s	Viscosity (40 °C) 24 mm ² /s	
	Meba S range	Special oils for extra heavy duty machining.	Viscosity (40 °C) 16 mm ² /s	Viscosity (40 °C) 30 mm ² /s	

Meba G and H: grinding and honing oils

Optimum grinding results for maximum machining volumes without burning require a precise performance from the grinding oils used:

- Controlled lubrication for long wheel service life and dressing intervals
- Optimum air separation for reliable cooling and free wheel's porosity
- Oest Meba G grinding oils ensure reliable processes for a large variety of processes
- Superfinishing oils Oest Meba H ensure optimum surface quality for honing and finishing operations



Meba G and H: grinding and honing oils

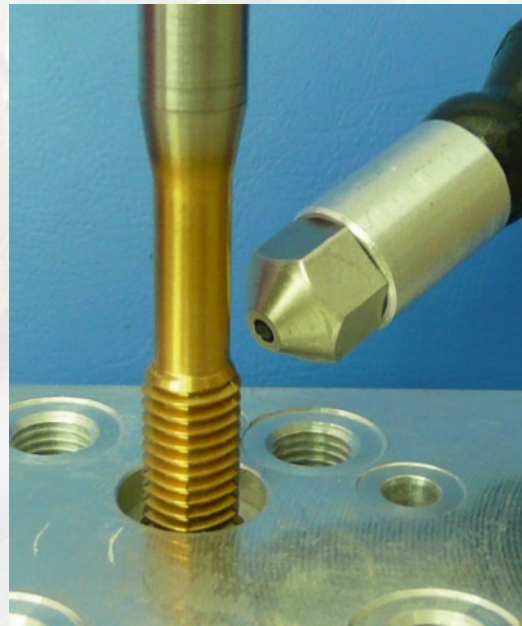
SHORT DESCRIPTION

		SHORT DESCRIPTION
	Meba G 1706 S	Synthetic high performance grinding oil. Focus on carbide tool grinding.
	Meba G 1707 S	Synthetic high performance grinding oil, focus on tool grinding and deep grinding.
	Meba G 2010	Universal grinding oil for grinding and for simple machining.
	Meba G 3513	High performance grinding oil for gear grinding.
	Meba G 3618	Gear grinding with maximum load.
	Meba G 2516	Flute grinding oil for manufacturing spiral drills of HSS and carbides.
	Meba H 5	Universal honing oil for simple to sophisticated applications.

Meba SP: spray mist lubricants for minimum quantity lubrication (MQL)

For machining operations where a circulating medium for cooling and chip transport can be omitted, the MQL technology can provide opportunities for cost reduction and/or productivity increase under favourable conditions.

The lubricating aerosol can be provided through one channel or two channel spray systems, in individual cases also in combination with CO₂ or N₂ cooling (cryogenic cooling).



Best Meba SP spray mist lubricants are formulated without mineral oils from components which offer maximum lubricating action with regard to the minimal quantities used. Best Meba SP spray mist lubricants are compatible with non-ferrous metals and light alloys.



Meba SP: spray mist lubricants for minimum quantity lubrication (MQL)

SHORT DESCRIPTION

	Meba SP 36 E	Universal spray mist lubricant for medium duty machining of all materials.
	Meba SP 43 EZ	High performance spray mist lubricant, focus on high strength steel.
	Meba SP 28 A	Special oil based on fatty alcohols for aluminium machining. Leaves no residue through subsequent heat treatment.

Dielectrics for spark erosion: FE Fluid

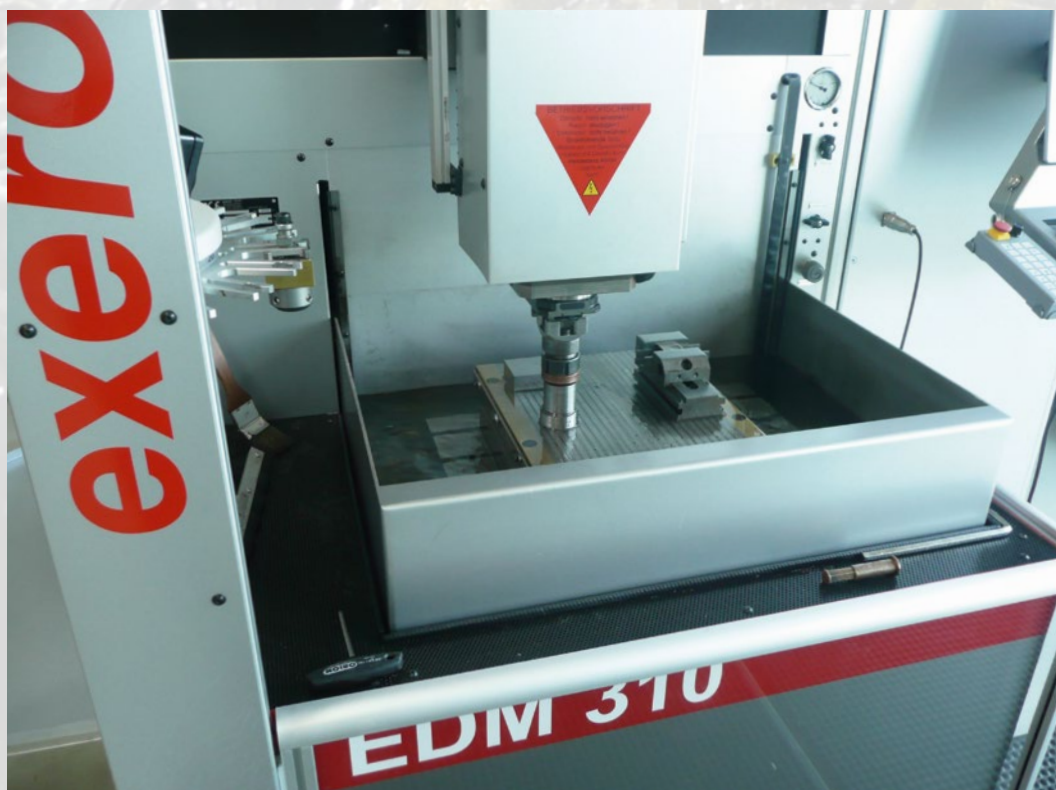
In addition to allowing optimum flashover, the primary task of the spark erosion media is flushing the gap between workpiece and electrode. The suitable viscosity is one of the determining factors for product selection.

The Oest FE Fluid product family covers all operations: from finishing to roughing, also in combined application on special purpose machines for eroding and grinding.

Dielectrics for spark erosion: FE Fluid

SHORT DESCRIPTION

FE Fluid 101	Low viscous fluid for high surface quality in finishing processes. Viscosity (40 °C) 1.3 mm ² /s
FE Fluid 2406	Universal fluid with high performance for finishing and roughing applications. Viscosity (40°C) 2.4 mm ² /s
FE Fluid 1706 S	Synthetic multi function fluid for machines with combined erosion and grinding. Viscosity (40°C) 6.0 mm ² /s





Lubricants for forming operations

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Forming lubricants

Lubricants for chipless metal forming are one of the core competences of Oest. Oest has been producing lubricants for cold forming and some warm forming processes on different metal materials.

Product development and selection always takes into account the entire production process: from material preparation and lubricant application to the actual forming process and the downstream process steps.

The product range comprises very different technologies: fluids from "thin as water" to "viscous as honey", pastes and greases, water miscible forming lubricants, evaporative stamping/bending oils and VOC-free products.

Oest forming lubricants are used in a large variety of industries:

automotive manufacturing, systems and mechanical engineering, etc.

Oest Platinol

Forming lubricants for sheet metal forming.

Oest Robinol

Forming lubricants for tube forming.

Oest Variol

Forming lubricants for massive forming and Cu/Ms tube expanding.





Platinol SF: vanishing oils

Vanishing oils are used with the aim of leaving as little lubricant as possible on the formed workpieces in order to allow downstream process steps without prior parts cleaning.

Best uses hydrocarbons with high flash points and optimised drying times as base fluids to allow adaptation to the drying conditions of the manufacturing process. Lubricating additives allow punching, bending, stamping and deep drawing operations with light to medium lubricity demand on steel, non-ferrous metal and aluminium sheets with small thickness.

Platinol SF: vanishing oils

SHORT DESCRIPTION

	Flash point > 61 °C	Flash point < 60 °C	Residue-free evaporative vanishing oil for absolutely dry parts.
	Platinol SF 18-1	Platinol SF 18	
	Flash point > 61 °C		Low residue punching/stamping oils for aluminium sheets < 1 mm.
	Platinol SF 19		
	Flash point > 61 °C		Low residue punching oils for non-ferrous metal, aluminium and steel sheets up to 1.5 mm.
	Platinol SF 21-1		
	Flash point > 61 °C		Low residue punching oils, bending oil for stainless steel sheets up to 1.5 mm.
	Platinol SF 25-1		
	Flash point > 61 °C		Partial evaporative punching/bending oils for medium duty forming operations.
	Platinol SF 32-1		
	Flash point > 61 °C		Partial evaporative punching/bending oil for heavy duty forming operations.
	Platinol SF 65		

Platinol B: free from chlorine and solvents

High performance oils for all processes in sheet metal forming and all materials suitable for cold forming.

The Oest Platinol B product range comprises product families with different lubricity levels and a wide range of viscosities.



The optimum lubricant for any application:

Platinol B: free from chlorine and solvents

SHORT DESCRIPTION

Platinol B 200	<p>Light to medium duty punching, bending, deep drawing of simple steel, non-ferrous metals and light alloys.</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="5">Viscosity (40 °C) mm²/s</th> </tr> </thead> <tbody> <tr> <td style="width: 20%;">1</td> <td style="width: 20%;">150</td> <td style="width: 20%;">300</td> <td style="width: 20%;">450</td> <td style="width: 20%;">600</td> </tr> </tbody> </table>	Viscosity (40 °C) mm ² /s					1	150	300	450	600
Viscosity (40 °C) mm ² /s											
1	150	300	450	600							
Platinol B 300	<p>Medium to heavy duty forming of steel, stainless steels and aluminum: punching, bending, deep drawing, fine blanking. With rust protection on steel.</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="5">Viscosity (40 °C) mm²/s</th> </tr> </thead> <tbody> <tr> <td style="width: 20%;">1</td> <td style="width: 20%;">150</td> <td style="width: 20%;">300</td> <td style="width: 20%;">450</td> <td style="width: 20%;">600</td> </tr> </tbody> </table>	Viscosity (40 °C) mm ² /s					1	150	300	450	600
Viscosity (40 °C) mm ² /s											
1	150	300	450	600							
Platinol B 500	<p>Light to heavy duty punching, bending, deep drawing of steel, stainless steels and aluminum.</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="5">Viscosity (40 °C) mm²/s</th> </tr> </thead> <tbody> <tr> <td style="width: 20%;">1</td> <td style="width: 20%;">150</td> <td style="width: 20%;">300</td> <td style="width: 20%;">450</td> <td style="width: 20%;">600</td> </tr> </tbody> </table>	Viscosity (40 °C) mm ² /s					1	150	300	450	600
Viscosity (40 °C) mm ² /s											
1	150	300	450	600							
Platinol B 900	<p>Very heavy duty forming of high strength, stainless steel as a replacement for chlorinated lubricants from the Platinol C range.</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="5">Viscosity (40 °C) mm²/s</th> </tr> </thead> <tbody> <tr> <td style="width: 20%;">1</td> <td style="width: 20%;">150</td> <td style="width: 20%;">300</td> <td style="width: 20%;">450</td> <td style="width: 20%;">600</td> </tr> </tbody> </table>	Viscosity (40 °C) mm ² /s					1	150	300	450	600
Viscosity (40 °C) mm ² /s											
1	150	300	450	600							

Platinol B 800: automotive manufacturing

Forming lubricants for automotive manufacturing present a special challenge. In addition to the forming performance, development has to meet various additional requirements: they have to be washable, compatible with the metal adhesives used, compatible with the paint systems, compatible with different welding processes, and many others.

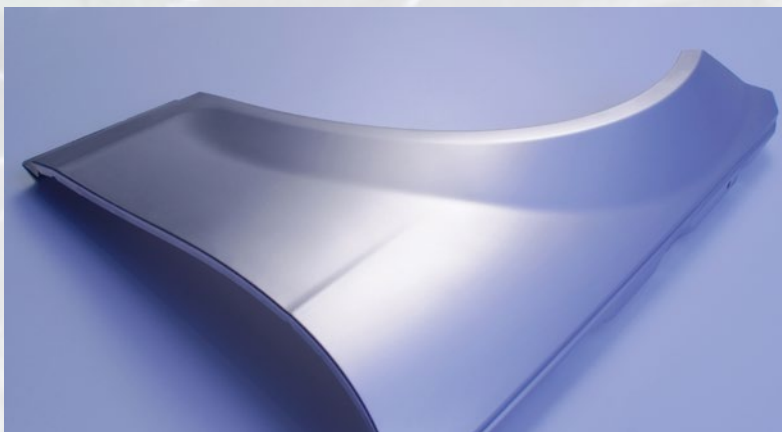
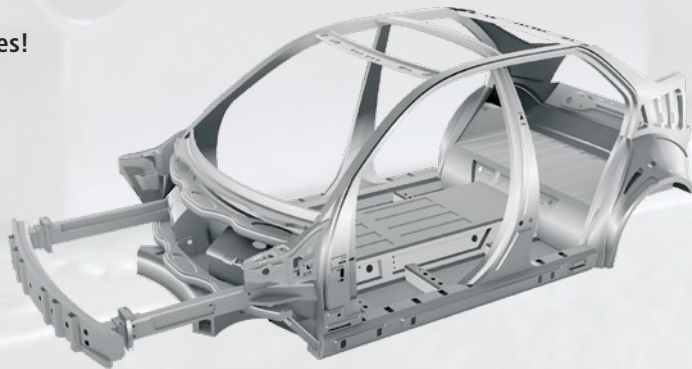
After an intense and long development period, Oest has succeeded in developing a customised product which meets the requirements of all German and many international car manufacturers.

Platinol B 804-3/COW-1

Platinol B 804-3/COW-1 has received general approval from the German Association of the Automotive Industry VDA (status 4). This comprises the clearance for use at all OEM and their subcontractors. Platinol B 804-3/COW-1 is used as a spot lubricant for difficult forming processes for body, structural and reinforcement parts.

- High forming performance
- Reduced film thickness and consumption
- Easy to wash off
- Compatible with cathodic dip coating
- Compatible with metal adhesives
- Weldable

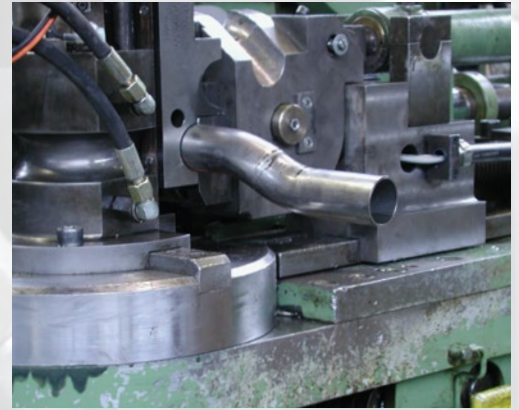
= safe and efficient processes!



Robinol: tube forming

Tube forming comprises methods such as expanding reducing, bending and hydroforming.

Lubricants from the Oest Robinol range have proven successful in many processes and are recommended by renowned manufacturers of processing machines.



Forming oils for manual or automatic application:

Robinol R 600 range

Recommended by



Robinol
R 600 range

SHORT DESCRIPTION

High performance oils for heavy to very heavy duty forming operations on aluminium and steels including high strength, stainless steel, e.g. for manufacturing of car exhaust systems.

Viscosity (40 °C) mm ² /s				
1	spraying	100	500	automatic ... Manual 2500

Gel concentrates for manual or automatic application:

Platinol G 13

Robinol
G 13

SHORT DESCRIPTION

Water miscible, mineral-oil free gel concentrates for use undiluted or mixed with water on steel and stainless steel tubes.

Viscosity (40 °C) mm ² /s				
1		100	200	1000

Forming pastes for manual application:

Robinol R 22 Platinol WP 20



Robinol
R 22

SHORT DESCRIPTION

Forming pastes with a high content of solid lubricants for manual application.
Highest forming performance for all materials.

Platinol
WP 20

Forming paste dilutable with water for manual manual application.
For carbon steels, stainless steels, galvanised steels as well as steels with higher strength.




Variol: massive forming

Cold forming of bars, profiles and tubes made of solid raw material and warm pre-drawn tubes requires the highest lubrication action to prevent adhesive material build-up on the forming tools.

Oest has developed different additive technologies for the specific requirements of different materials.

Variol: massive forming

SHORT DESCRIPTION

	Variol ST 5027	<p>High performance forming oil for drawing blank steel on Schumag racks. Drawing of steel and stainless steel materials from ring-to-bar or from bar-to-bar in the shapes round, square, hexagon and freely defined profiles. Variol ST 5027 forming oil additionally offers good corrosion protection for the drawn products.</p> <table border="1"> <thead> <tr> <th colspan="5">Viscosity (40 °C) mm²/s</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>270</td> <td>500</td> <td>750</td> <td>1000</td> </tr> </tbody> </table>	Viscosity (40 °C) mm ² /s					1	270	500	750	1000
Viscosity (40 °C) mm ² /s												
1	270	500	750	1000								
	Variol CU	<p>Forming oils for internal and external lubrication in manufacturing of pressed, pilger rolled and pre-drawn tubes as well as bars and profiles made of non-ferrous metals.</p> <p>Special base oils and additives allow to achieve a residual carbon content of < 0.2 mg/dm² on the inner surfaces of the finished tubes.</p> <table border="1"> <thead> <tr> <th colspan="5">Viscosity (40 °C) mm²/s</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>100</td> <td>500</td> <td>//</td> <td>3500</td> </tr> </tbody> </table>	Viscosity (40 °C) mm ² /s					1	100	500	//	3500
Viscosity (40 °C) mm ² /s												
1	100	500	//	3500								
	Variol WE	<p>Water miscible emulsion concentrates for pilger rolling as well as deep drawing and stretching of non-ferrous metal.</p>										
	Variol W	<p>Forming lubricant for warm rolling of plates made of zinc and refined zinc.</p>										





Variol OFP: cold forging

Cold forging often involves high temperatures and surface pressing.

Best Variol OFP cold forging oils prevent material build-up on and adhesive wear of the tools and allow forming of complicated shapes even from difficult materials. All common forming processes such as full forward, sideways or hollow reverse pressing can be managed with these lubricants.

Variol OFP: cold forging

SHORT DESCRIPTION

	Variol OFP 1000	Cold forging oils exclusively for cooling and lubrication of press tools and materials on single stage or multi stage presses with separate circuits for forming oil and machine lubrication. Suitable for heavy to very heavy duty forming operations on steel, alloyed stainless steel.
	Variol OFP 2000	Copper-compatible multi function oils for machines with only one lubrication circuit for mould cooling and machine lubrication (type CLP) or possible cross contamination of forming oil into the machine lubricating oil. Suitable for cold forging of steel, aluminium and non-ferrous metals.
	Variol OFP 3000	High performance cold forging oils with optimised flash point > 250 °C for processes with extreme temperature generation and for preventing the formation of irritating oil mist/smoke from hot workpieces. Suitable for cold forging of steel, aluminium and non-ferrous metals.





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All around metal working

As a system supplier, Oest is capable of supplying all applications in metalworking processes with products from in-house development and production. This allows the user to purchase all required products from one source, to realise a lean lubricant supply and to minimise costs:

processing media, machine lubricants, cleaning agent and corrosion protection.

The crucial advantage of Oest as a system supplier is the prevention of interface problems through coordinated products. Any questions can be processed and answered responsibly.

A good example for this is the **Solvent Care®** additive technology:

In cooperation with one of the leading manufacturers of solvents for parts cleaning, an additive package for metalworking lubricants was developed which has been proven to minimise the risk of corrosion and machine damage. Oest metalworking lubricants with Solvent Care technology allow easy cleaning of the machined workpieces as well as efficient and safe operation of cleaning systems with hydrocarbons, modified alcohols or chlorinated solvents.





Solv: parts cleaning

The topic of component cleanliness is becoming increasingly important. This makes effective parts cleaning even more important.

Oest covers water based cleaning and cleaning with hydrocarbon solvents. Oest Solv products have been approved and recommended by renowned system manufacturers.


Solv W: water miscible cleaner concentrates

SHORT DESCRIPTION

 <p>9.3 pH</p>	<p>Solv WS-U2</p>	<p>Spray cleaner for steel, non-ferrous metals and aluminium with temporary corrosion protection.</p>
 <p>12.0 pH</p>	<p>Solv WT-S</p>	<p>Cleaner concentrate for ferrous materials, suitable for immersion-, spray- and ultrasonic systems.</p>

Solv: hydrocarbon solvent

SHORT DESCRIPTION

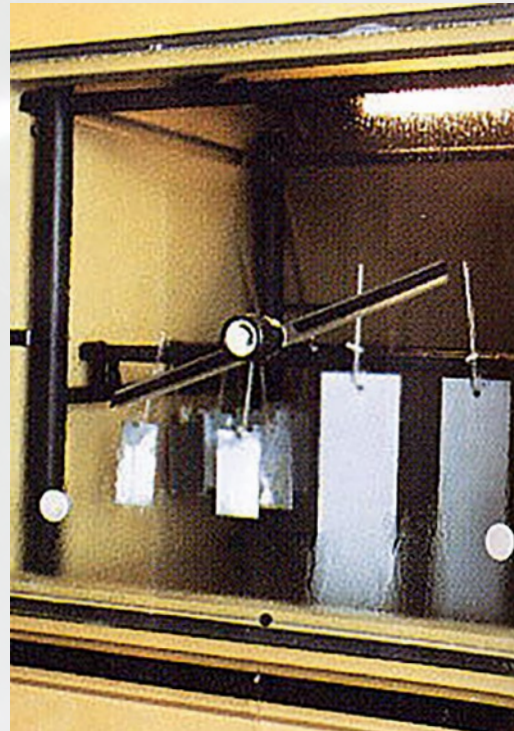
	<p>Solv IP 62</p>	<p>Isoparaffin, odourless, evaporation number 115 (ether = 1).</p>
	<p>Solv AF 800</p>	<p>Low odour petroleum replacement, evaporation number 800 (ether = 1).</p>
 <p>VOC FREE</p>	<p>Solv EA 3500</p>	<p>Dearomatised hydrocarbon, evaporation number > 1000 (ether = 1).</p>



Antiko: corrosion protection

For temporary storage and transport up to long term conservation.

Best Antiko corrosion protection products ensure reliable protection of workpieces, components and machines.



Antiko: corrosion protection

SHORT DESCRIPTION

Antiko DW	Dewatering fluids for immersion of wet workpieces. Create a thin, barely perceptible film for temporary protection for approx. 6 to 12 months.
Antiko DW-KO	Concentrates for mixing with hydrocarbon solvents on site. Protection performance can be selected as required. Also suitable for automatic dosing in solvent cleaning and conservation systems.
Antiko O	Solvent free oils with different viscosities. Easily sprayable on dry components for protection up to 24 months.
Antiko E	Water miscible emulsion concentrates. Used in 10 - 20% at 60 - 80 °C for generating oily protective films, also after prior heat treatment.
Antiko WS	Water soluble corrosion protection concentrates for use as leak test media. Mixed with water, they produce clear, transparent solutions with temporary corrosion protection.

Machine lubricants

Oest offers a comprehensive range for reliable lubricant supply of machine tools and forming presses.

High quality lubricants according to international standards are supplemented by customised special products to meet the state-of-the-art requirements from machine manufacturers.



Machine lubricants

SHORT DESCRIPTION

Circulating oils / gear lubrication	<p>Standard oils according to DIN 51517.3 and ISO 6743.6 Special oils with increased load bearing capacity (FZG, Brügger) Viscosities 5 ... 680 mm²/s (40 °C).</p> <p>Viscosity (40 °C) 5 ... 680 mm²/s</p>
Hydraulic system	<p>Standard oils according to DIN 51524.1-3 and ISO 6743.4 Special oils</p> <ul style="list-style-type: none"> ■ With detergents (HLP-D) for applications with water contact ■ With increased oxidation stability for extreme temperature load ■ With increased wear protection <p>Viscosity (40 °C) 5 ... 150 mm²/s</p>
Slide ways, guides	<p>Special oils for preventing stick-slip. Allow exact positioning of tool or workpiece even with heavy load.</p> <p>Viscosity (40 °C) 32 ... 220 mm²/s</p>
Spindle	<p>Lubricating spindle oils with optimum water separation capability in ISO VG 2-10.</p>
General machine lubrication	<p>Lubricating oils for bar magazines, various greases for bearing and central lubrication.</p>

Service

The use of metalworking lubricants requires competent product selection and close support during use. Check lists are available for recording the selection parameters.



Products mixed with water in particular can be subject to strong changes and have to be monitored for this and possibly serviced to ensure the longest possible safe use.

Our services

In the framework of the "Oest Fluid System", Oest offers customised support from analysis service to total fluid management/chemical management. The objective of all services is to minimise process costs by ensuring the best possible lubricant performance.



Devices

The Oest portfolio includes facilities and devices from renowned manufacturers for lubricant supply and maintenance. The basic range for easy and cost efficient maintenance of cooling lubricants mixed with water includes:

Colo-Mix

Automatic mixer using the Venturi principle.



Colo-Skim

Belt skimmer for removing floating tramp oil.



Quick tests for coolant monitoring

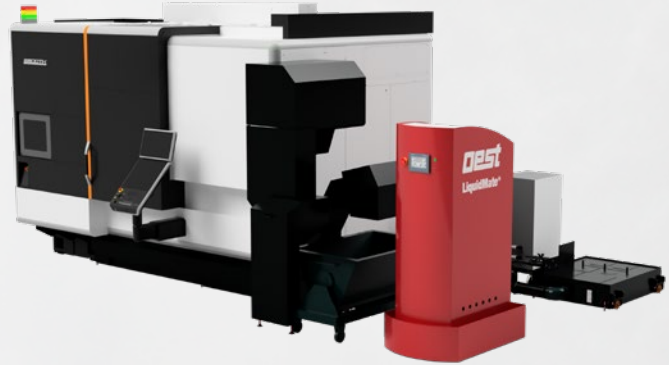
Test strips and devices for measuring concentration (refractometer), pH value, water hardness and nitrite content according to TRGS 611.



LiquidMate®

For **automatic cooling lubricant monitoring with fully automatic top-up**, Oest offers LiquidMate® – a sophisticated system that can be used to optimise processes and lower costs.

At the core is a central supply tank, which holds 560 liters in the standard version and ensures a reliable supply to the machines. Depending on the version, the system can supply up to 45 machines. High-precision “best in class” sensors continuously measure the fill level and the cutting fluid data, triggering fully automatic top-up and controlling the exact concentration. The system for fully automatic cooling lubricant monitoring and top-up was developed together with *em machines*.



Process optimisation

- constant cutting fluid condition
- no fluctuation in concentration
- stable machining processes
- optimised machining results
- very high level of safety
- continuous digital data documentation
- industry 4.0 capability
- saves resources, contributes to sustainability

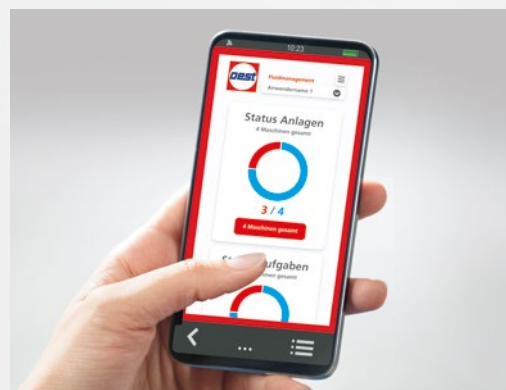
Cost reduction

- longer service life of the cutting fluids
- reduced cutting fluid consumption
- easier change of cutting fluids
- no manual cutting fluid measurements required
- minimised risk due to less skin contact
- no personnel required for topping up machines
- amortisation possible in 2 - 3 years

Oest Fluid Management app

The **My Fluid App** specially developed by Oest offers another tool for efficiently managing cooling lubricants.

Oest My Fluid is a quick, easy and free way to digitally document all required measurement values as per the Technical Regulations for Hazardous Substances TRGS 611. With integrated task management, users always have an overview of due measures and are therefore in control of consumption, costs and the maintenance and service status at all times. The PRO version offers additional helpful features such as a clearly structured dashboard, evaluation diagrams, photo and file uploads, limit value setting and notifications, and much more.





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