



CONDAT

LUBRICANTS FOR MACHINING



COMMITTED TO RESPONSIBLE PERFORMANCE

FRENCH MANUFACTURER AND DEVELOPER OF INDUSTRIAL LUBRICANTS

Manufacturer and formulator of industrial lubricants since 1854, CONDAT is an independent French company with an international presence. Our expertise allows us to develop lubricants and other high value-added products for a multitude of applications. Well known in the metalworking market, in particular for our range of vegetable-based cutting oils, we offer you a diversified range, result of our multispecialist know-how.

Our products are suitable for all types of machining operations, from the most common (turning, milling, drilling, tapping, grinding) to the most demanding (drilling, reaming, broaching, trimming) and on all materials (cast iron, steel, stainless steel, aluminium alloys, copper alloys, super alloys, etc.). Close to the field, our technical experts are available to assist you in implementing the optimal lubrication solution for your process.

170
1854 - 2024

170 YEARS OF EXPERTISE



700
employees
globally



30
technologies
controlled



4
production sites
ISO 9001 certified



40
markets of
applications



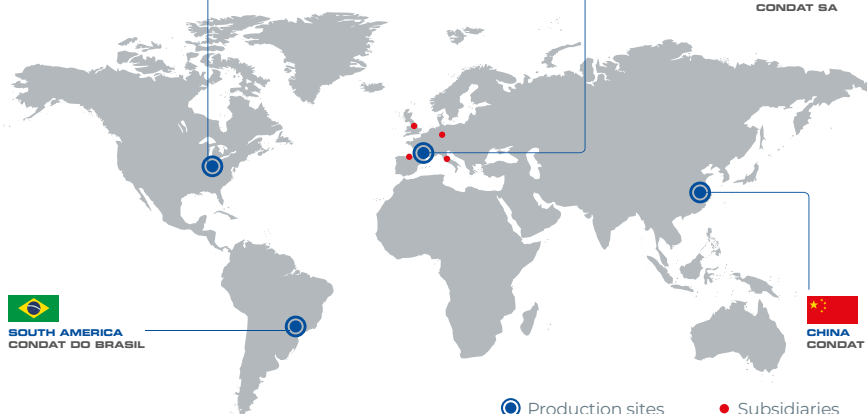
2 000
products


**NORTH AND
CENTRAL AMERICA**
CONDAT CORPORATION


FRANCE
HEADQUARTERS
CONDAT SA


SOUTH AMERICA
CONDAT DO BRASIL


CHINA
CONDAT CHINA



● Production sites

● Subsidiaries



Innovation
15%
of turnover
made with
products less than
3 years old



**Sustainable
performance**
30%
of low-carbon
raw materials



Company
100%
independent

OUR COMMITMENT: RESPONSIBLE PERFORMANCE



Aware of environmental issues ahead of its time, for more than 20 years CONDAT has been committed to developing solutions that are more respectful of individuals and the planet. Our CSR policy guides all our actions on social, environmental, and economic issues. Our responsibility as a company is to build to last. This requires building an offer that acts positively for society, while preserving the Individual, Nature and the 4 elements: Water / Fire / Earth / Air, by reducing the impact & risks of our activities and those of our customers on our ecosystem. Each of our markets is associated with 1 of the 4 elements to reflect these commitments.



Water

Metalworking



Fire

Metallurgy, Forging,
Glass,
Heat Treatment



Earth

Maintenance,
Underground works



Air

Wire drawing

EcoVadis certified and supporting the «Project Rescue Ocean» association, the CONDAT group offers you eco-designed solutions that minimize environmental impact and protect the health of operators, while consuming less but better!

By seeking the best cooling power and optimizing the role of the lubricant, our ambition is not only to guarantee a high level of performance, it is also to accompany you towards a responsible performance that meets the social and environmental challenges.

LUBRISCORE®

In order to show its high standards and to offer its customers a better visibility on its products, CONDAT proposes the **LUBRISCORE®**.

The LUBRISCORE® is a self-evaluation method that allows products to be rated according to life cycle criteria: Raw materials and design / Production / Transport / Use / End of life. On this basis of a point system and the answers given to about twenty questions, the LUBRISCORE® evaluates the level of eco-design of CONDAT products. By choosing a lubricant with the LUBRISCORE® logo, you know you benefit from an eco-designed product!



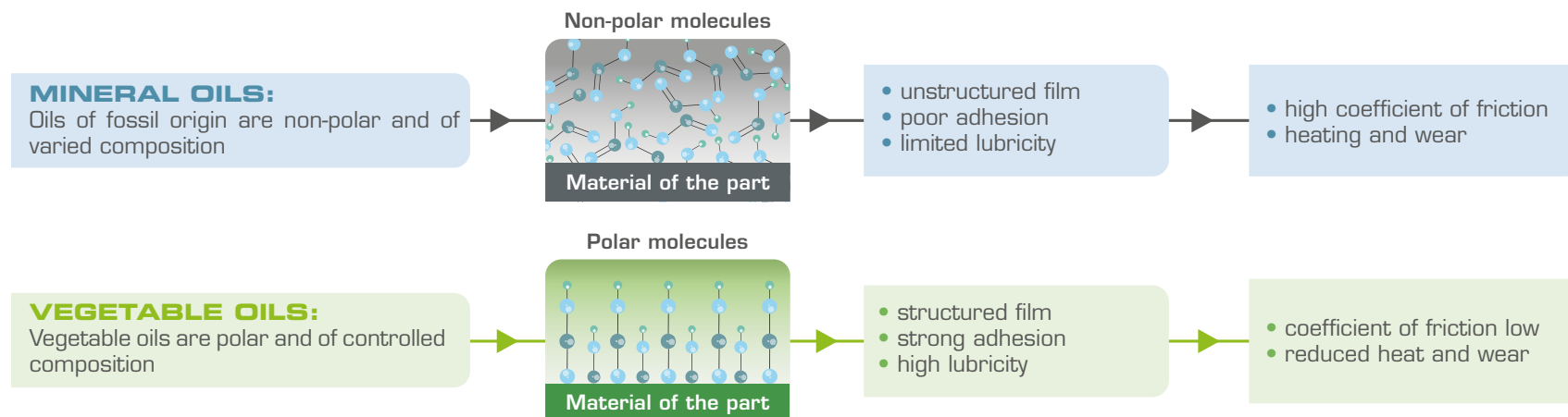
PRECURSOR OF PLANT ESTER-BASED FORMULAS

Since the early 2000s, CONDAT has been exploring alternatives to oil. In 2009, we were the first to offer neat and soluble oils based on esters of renewable origin. The raw materials used in our formulas are biosourced and minimize the carbon impact of our products.

Our lubricants, due to their performance, also allow you to significantly reduce your overall costs (product consumption, tool wear, etc.) and have an excellent HSE profile.



PIONEER
IN VEGETABLE-BASED
LUBRICANTS
SINCE 2009



BOOST YOUR COMPETITIVENESS

Beyond our environmental and social commitment, our daily objective is to offer our customers high-performance & innovative lubricants that allow you to:

- Reduce wear on your tools
- Reduce your fluid consumption
- Reduce your maintenance downtime
- Improve the working conditions of your operators
- Benefit from more neutral formulas: products without boron, bactericides, amines, formaldehyde releases, etc.



SOLUBLE LUBRICANTS



**Synthetic
base**

CONDACOOOL

CONDACOOOL high performance solutions (oil-free) combine optimized lubrication and ease of use for operators



**Vegetable
base**

MECAGREEN

Formulated from renewable esters selected for their optimal polarity, the MECAGREEN solubles combine performance and environmental responsibility.



**Mineral
Base**

POLYBIO

The POLYBIO range of soluble oils combines robustness and versatility, without compromising on user protection.

BENEFITS:

Improving the quality of parts:

- Surface condition
- Geometry
- Reduction of waste

Increased productivity:

- Reduction in machining time
- Stability of cutting conditions

Cost reduction:

- Tools
- Lubricant
- Waste



MACHINING LUBRICANT SOLUTIONS

CONDACOOOL machining lubricant solutions are formulated with water-soluble active ingredients combining ease of use and high lubricating performance. Latest innovations from the CONDAT laboratories, they optimize the lubrication and cooling of your cutting and grinding operations.

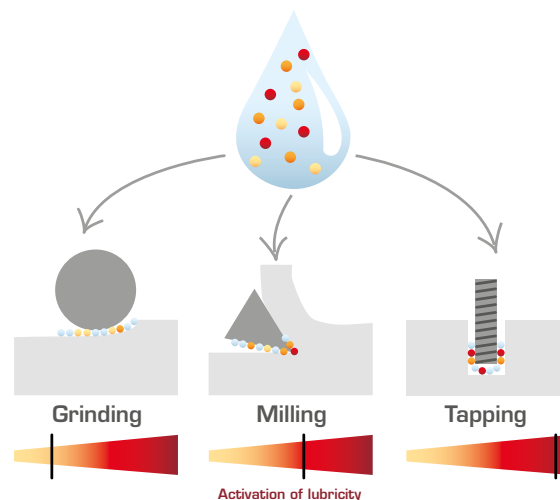
Smart-Lubricant

CONDACOOOL lubricating solutions incorporate lubricating additives that activate according to the forces associated with each machining/grinding process. They provide the right amount of lubricating and cooling power to ensure optimal cutting conditions for each of your operations.

Oil-free, they have excellent wettability to lubricate the cut as close to the metal/tool contact as possible, and efficiently evacuate chips and heat.

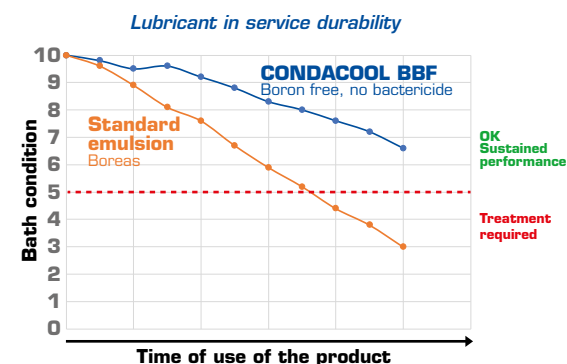
Advantages:

- Compatibility with all types of water
- Reduction of tankside treatments
- Prevention of foaming phenomena
- Improved cleanliness of baths and machines



Zoom CONDACOOOL 445 BBF

CONDACOOOL 445 BBF synthetic solution is translucent for better visualization of ongoing operations, thus providing a cleaner working environment. Designed without mineral oil, it significantly reduces foam generation and has a long term enhanced stability. Its emulsifier-free formula quickly releases foreign oils for easier management of your sumps in service.



	Machining	Grinding	Cast iron	Steel	Alloy steel	Stainless steel	Aluminium	Aluminium Aero	Copper alloys	Super Alloys	Lubriscore®
CONDACOOOL 105 BBF	○	●	●	●	●	○			○	○	✓ LUBRISCORE®
CONDACOOOL 135 BBF	○	●	●	●	●	○				○	✓ LUBRISCORE®
CONDACOOOL 220 BBF	●	●	●	●	●	○	○	○	○	○	✓ LUBRISCORE®
CONDACOOOL 445 BBF	●	●	●	●	●	●	○		○		✓ LUBRISCORE®

MECAGREEN



SOLUBLE VEGETABLE-BASED MACHINING OILS

The result of several years of research in CONDAT laboratories, **MECAGREEN** products incorporate innovative and responsible raw materials. Built on a unique assembly of synthetic esters of renewable origin, they offer extremely high performance in machining and grinding operations.

Reduction of consumption

MECAGREEN products are formulated with high wettability esters. Highly detergent, they leave machines cleaner and flow easily over chips, thus limiting lubricant consumption.

Advantages:

- Cleanliness of machines
- Prevention of dermatitis risks
- Boron-free/bactericide formulations



Observation window dirty with traditional oil



Clean observation window with MECAGREEN range

Zoom MECAGREEN 235 BBF

Specially designed for the lubrication of grinding operations during the manufacture of ball bearings, MECAGREEN 235 BBF guarantees optimal surface conditions. Its high deaeration speed ensures excellent cooling, preventing the risk of burns on the parts, and maintaining the cut of the grinding wheels (no clogging). MECAGREEN 235 BBF is perfectly adapted for use in centralized system thanks to its very high filterability and to its innovating formula sustaining sump long-term stability while being more neutral for the operators.



	Machining	Grinding	Cast iron	Steel	Alloy steel	Stainless steel	Aluminium	Aluminium Aero	Copper alloys	Super Alloys	Lubriscore®
MECAGREEN 127	●	●	●	●	●	○	○		○		-
MECAGREEN 235 BBF	●	●	○	●	●	○	○				✓ LUBRISCORE®
MECAGREEN 400	●	○	●	●	●	●	●	○	○	○	-
MECAGREEN 450	●	○	○	●	●	●	●	○	○	○	✓ LUBRISCORE®
MECAGREEN 450 Aero	●	○	○	●	●	●	●	●	○	○	✓ LUBRISCORE®
MECAGREEN 495 BBF	●	○	●	●	●	●	●	○	○	○	✓ LUBRISCORE®
MECAGREEN 550	●			○	●	●	●	●	○	●	✓ LUBRISCORE®
MECAGREEN 635 BF	●			○	●	●	●	●	○	●	✓ LUBRISCORE®

○ : punctual - ● : recommended

POLYBIO



MINERAL-BASED SOLUBLE MACHINING OILS

The **POLYBIO** range of water-soluble lubricants includes soluble machining oils of the micro-emulsion, semi-synthetic and fine emulsion types. They can be used for a wide range of machining operations by chip removal or abrasion. Committed to an active innovation approach, CONDAT also offers solutions that are more neutral for users while guaranteeing high performance.

Improved working conditions

Anticipating tomorrow's requirements and legislation, the POLYBIO range includes products that meet all your hygiene and safety requirements.

Advantages:

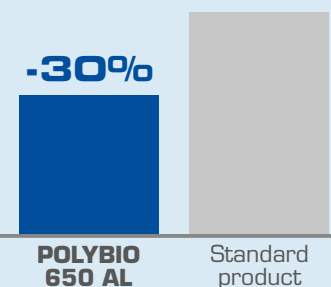
- Prevention of dermatitis risks
- Boron and/or amine free formulations
- Biostability



Zoom POLYBIO 650 AL

Designed to meet the challenges associated with the manufacture of parts in large series, POLYBIO 650 AL incorporates a high performance additive that optimizes the cutting of aluminium alloys. It thus contributes to reducing cycle times and improving surface finishes for optimized production costs. Particularly well suited to machining operations on aeronautical parts, this cutting fluid meets the standards of the main contractors. Formulated without boron or amines, it has a more neutral pH to provide a healthier working environment for users. Its eco-designed formula, rated 1 star on our Lubriscore® system, also helps reduce the environmental impact of your lubricant.

30% reduction in cutting forces



	Machining	Grinding	Cast iron	Steel	Alloy steel	Stainless steel	Aluminium	Aluminium Aero	Copper alloys	Super Alloys	Lubriscore®
POLYBIO 150	●	●	●	●	●	○	○		○		-
POLYBIO 200 BF	●	●	●	●	●	○	○	○	○	○	-
POLYBIO 425	●	○	○	●	●	●	○	○	○	○	-
POLYBIO 435 AL	●	○	●	●	●	●	●	●	○	○	-
POLYBIO 465 BF	●	○	●	●	●	●	○		○	○	✓ LUBRISCORE®
POLYBIO 535	●			●	●	●	●	○	○	○	-
POLYBIO 650 AL	●			●	●	●	●	●	○	●	✓ LUBRISCORE®

○ : punctual - ● : recommended

OILS APPROVED FOR AERONAUTICAL USE

CONDAT offers different types of lubricants to meet the requirements of the aeronautical industry. Specially formulated for particularly complex operations, they allow the machining of the most difficult materials: aluminium alloys, alloyed steels, nickel and titanium alloys.



ENGINE:

Turbine and engine components are designed to operate under extreme mechanical conditions and at high temperatures and must combine high mechanical strength with surface finishes that minimize friction. Therefore, these parts are usually machined from stainless steel and titanium alloys due to their high hardness.

CONDAT solution: Incorporating a lubricating phase based on renewable esters, **MECAGREEN 550** combines lubricating performance and extreme wettability for the machining and grinding of low ductility materials. This soluble oil will therefore be the first choice for manufacturing engine and turbine components.

STRUCTURE:

Representing a major part of the weight of the aircraft, the structural elements are generally produced with aluminium alloys or composite materials chosen for their excellent mechanical strength and lightness.

CONDAT solution: Incorporating a performance additive that optimizes the cutting of aluminium alloys, **POLYBIO 650 AL** contributes to shortening your cycle times and preventing the generation of built-up edges, even on low melting point alloys such as the 7075 series. It also reduces tool wear, especially when machining abrasive composite materials.

LANDING GEAR:

Exposed to extreme stresses during take-off and especially landing operations, the landing gears are made of titanium and have increasingly complex structures to machine.

CONDAT solution: Combining high lubrication with intense cooling power thanks to its unique composition, **CONDACOOL 700 BBF** quickly evacuates the energy generated by the machining of refractory materials. It allows difficult operations to be carried out quickly while reducing tool wear.

	Structure	Engine	Landing gear	Approvals / Spécifications					
Challenges	Resistance / lightness	Accuracy, strength, surface finish	Extreme resistance	Airbus	Boeing	Bombardier	Safran	Pratt & Whitney	Messier Dowty
Metals	- Aluminium: AL 7010 - Titanium: TiAl4V	- Stainless steel: Tetramete M152, Inconel 718 - Titanium: TiAl4V	- Titanium: Ti6Al4V, - Titanium: Ti(5-5-5-3)	AIMS 12-10-000	BAC 5008	BAMS 569-001	PR 6300	PMC 9300	IFC 30-850-02MD – éd3
ALTIBIO RF 35		+							
CONDACOOL 700 BBF	+	+++	+++						
MECAGREEN 450 AERO		+		•			•	•	
MECAGREEN 550	+++	+++	+++	•	•	•	•		•
POLYBIO 650 AL	+++	+	++	•			•		

For more information on the aeronautical approvals of our lubricants, please contact your **CONDAT** representative.

NEAT OILS



**Vegetable
base**

NEAT GREEN

NEAT GREEN lubricating oils are composed of lubricating esters of renewable origin for optimal lubrication of your operations. They offer high performance lubrication and reduced HSE impact.



**Refined
Mineral base**

CONDACUT X

CONDACUT X products are formulated from refined, low volatility mineral oils. They contribute to the improvement of the air quality in the workshop while providing superior lubricating performance.



**Mineral
Base**

CONDACUT

CONDACUT products incorporate additive packages optimized for the lubrication of each type of operation.

BENEFITS:

Optimum part quality:

- Surface condition
- Geometry
- Reduction of waste

Oxidation stability:

- Extended bath life
- Durable cutting performance
- Reduction of consumption

Improving air quality:

- Mist reduction
- BaP/HAP limitation

NEAT GREEN



VEGETABLE-BASED NEAT MACHINING OILS

The cutting oils in the **NEAT GREEN** range are made up of a combination of synthetic esters of renewable origin and selected additives. CONDAT offers, through its innovations, more neutral solutions for users and the environment, while guaranteeing high performance.

High performance

The innovative chemistry of NEAT GREEN oils gives them very high lubricating performance. The oils are perfectly adapted to the machining of difficult materials used in the medical and aeronautical industries such as alloyed steels, nickel alloys, titanium, and more.

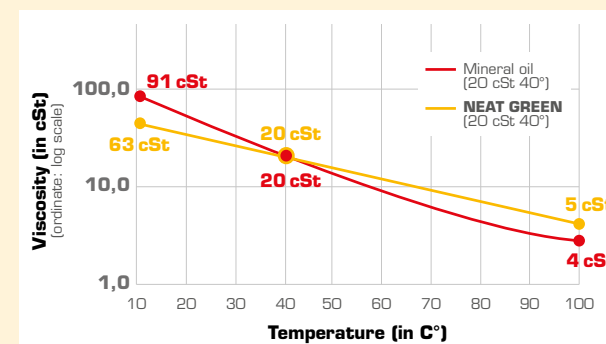
Advantages:

- Improved tool life
- Thermal stability of the lubricant film
- Long life of oils in service



Focus on the viscosity index of NEAT GREEN DP X220

The high performance esters of renewable origin, selected to formulate NEAT GREEN DP X220, have a higher viscosity index than standard mineral oils. Thus, at equivalent reference viscosity, it generates a lubricating film that is more resistant to cutting temperatures. It also remains more fluid at room temperature. This reduces the amount of oil entrained on the workpieces. These characteristics are common to all the products in the NEAT GREEN range.



NEAT GREEN allows you to optimize your cutting performance while reducing your fluid consumption in service

	Viscosity at 40°C (cSt)	Machine lubrication	Machining	Grinding	Cast iron / steel	Alloy steel	Aluminium	Copper alloys	Super Alloys	Carbide	Lubriscore®
NEAT GREEN DP X210	11	●	●	●	●	○	●	●	○	●	✓ LUBRISCORE®
NEAT GREEN DP X510	11	●	●	●	●	●	●	●	●	○	✓ LUBRISCORE®
NEAT GREEN DP X220	20	●	●	●	●	○	●	●	○	●	✓ LUBRISCORE®
NEAT GREEN DP 520	20	●	●	○	●	●	●	○	●	○	✓ LUBRISCORE®
NEAT GREEN DP 532	32	●	●	●	●	○	●	○	○	●	✓ LUBRISCORE®
NEAT GREEN DP 240	40	●	●		●	●	●	○	●		✓ LUBRISCORE®
NEAT GREEN DP 268	68	●	○		●	●	●	○	●		✓ LUBRISCORE®

○ : punctual - ● : recommended

CONDACUT X



REFINED MINERAL-BASED NEAT MACHINING OILS

CONDACUT X premium cutting oils are formulated with highly refined oils of high purity. Working in synergy with an innovative additive package, they combine performance, extended life and contribute to improved shop floor atmosphere due to their low volatility.

Advantages:

- Improving air quality
- Optimization of cutting performance
- Reduction of PAH/BaP formation

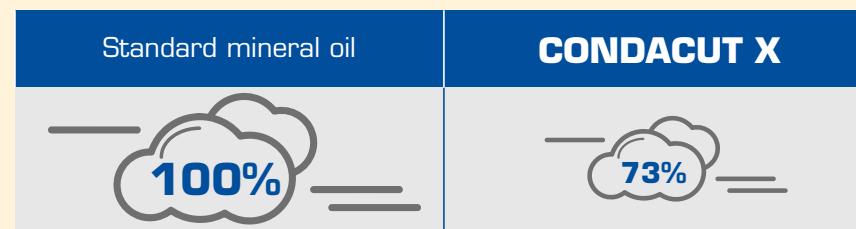


Zoom CONDACUT XC 212

CONDACUT XC 212 incorporates a package of additives specifically adapted to the grinding operations of 100Cr6 steel commonly used in the manufacture of ball bearings. The fluidity of its formula and the rapid deaeration of its refined oil ensure perfect lubrication of the grinding wheels to guarantee optimal cutting performance and surface conditions that meet the high requirements of ball bearing manufacturers. With low volatility, it helps keep machines clean and improves air quality in the workshop.

Nebulisation test

Measurement of mist generation in % of oil volume According to protocol T 60-196



Conclusion: The test shows a 27% reduction in mist generation

	Viscosity at 40°C (cSt)	Machine lubrication	Machining	Grinding	Cast iron / steel	Alloy steel	Aluminium	Copper alloys	Super Alloys	Carbide
CONDACUT XC 212	12	●	●	●	●	○	○	●		●
CONDACUT XC 412	12	●	●	●	●	●	●	●	●	○
CONDACUT XC 220	20	●	●	●	●	○	●	●	○	●
CONDACUT XC 420	20	●	●	●	●	●	●	●	●	●

○ : punctual - ● : recommended



MINERAL-BASED NEAT MACHINING OILS

With more than 170 years of experience in lubrication, CONDAT has developed, in partnership with the machining industry, its **CONDACUT** range of neat oils. CONDAT is committed to formulating products that meet your performance requirements as well as those of improving the working environment.

Our expertise in lubrication

The CONDACUT range offers a wide range of viscosities and additives. It includes the formula that meets the lubrication and cooling needs of your operations:

Multi-material:

- Steel
- Cast iron
- Alu
- Copper...

Multi-operations:

- Grinding
- Screw-cutting
- Drilling
- Trimming...

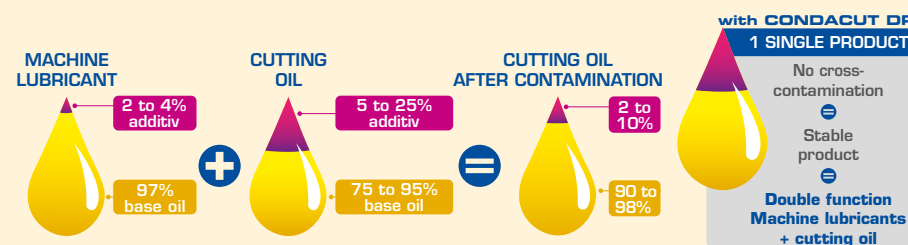
Multifunctional:

- Cup
- Greasing



Zoom CONDACUT DP 430

During machining operations, it is commonly observed that cutting oils tend to be contaminated by lubricating oils. After several hours of operation, this contamination can reach 30% to 60% of the machining lubricant. Due to the low additive content of hydraulic oils, this contamination affects the lubrication performance of the machining operation, reduces tool life and causes additional smoke generation.



With a viscosity to suit many machine tool specifications and additives that combine performance and safety on copper alloys, CONDACUT DP 430 lubricates both machine components and machining operations. A unique reference that simplifies lubricant management and reduces performance losses associated with the risk of cross-contamination.

	Viscosity at 40°C (cSt)	Machine lubrication	Machining	Grinding	Cast iron / steel	Alloy steel	Aluminium	Copper alloys	Super Alloys	Carbide	Lubriscore®
CONDACUT CW	4			●	●	○		●	●	●	
CONDACUT GR 8	8		●	●	●	○	○	●	○	○	-
CONDACUT DP 215	13	●	●	●	●	○	○	○		●	
CONDACUT 515	15		●	●	●	●	●	○	●		✓ LUBRISCORE®
CONDACUT 620	20		●	●	●	●	●	○	●		
CONDACUT DP 430	30	●	●		●	●	●	●	●	○	✓ LUBRISCORE®
CONDACUT DP 630 B	32	●	●		●	●	●	●	●	○	

COMPLEMENTARY PRODUCTS

As a multispecialist with one of the broadest offers on the market, CONDAT is able to provide you with numerous complementary products to cover all your workshop needs. You can thus simplify the management of your fluids with a single contact.

Degreasers

We have developed a range of degreasers particularly adapted to clean our lubricants. They can be integrated into a wide range of processes to ensure the cleanliness of parts after their manufacture.

		Steel	Zinc - galvanised	Copper and alloys	Aluminium and alloys	
ACIDIC CLEANER	CONDACLEAN ALLMET	•	•	•	•	Very effective on oil and soap residues. Room temperature up to 50°C
ALKALINE CLEANER 	CONDACLEAN W 1400	•	•	•	•	Ambient temperature up to 60°C
	CONDACLEAN BLUE	•	•	•	•	Heavy duty cleaner. Temperature range 45°C to 85°C
PRE-DRAINAGE CLEANER	CONDACLEAN S	•	•	•	•	Bacterial degreaser to be used before emptying baths in service
SOLVENT (Flash point > 60°C)	CONDACLEAN N°2	•	•	•	•	Evanescent product Low odour
	CONDACLEAN N°6	•	•	•	•	Evanescent product Odourless

Anti-corrosion protection

To guarantee the integrity of your parts in the long term, CONDAT offers you a wide range of protective fluids to limit the corrosion of parts stored in inter-operations or awaiting shipment.

		Steel	Zinc - galvanised	Copper and alloys	Aluminium and alloys	Dewatering effect	Film	Approximate duration of protection			
								Inside closed package	Inside open package	Outside under cover	
WATER-BASED	CONDAPROTECT 1271	•					Cireux	at 20%: 9 month	at 20%: 18 month	at 20%: 12 month	Emulsion based on mineral oil. Does not require heating. High protection
BASIC OIL	CONDAPROTECT 278	•				•	Oily	9 month	6 month	3 month	Low viscosity. Flash point > 180°C
	CONDAPROTECT 1045	•				•	Oily	24 month	18 month	12 month	Medium viscosity Flash point > 150°C Excellent protection
SOLVENT-BASED	CONDAPROTECT 1377	•				•	Cireux	9 month	6 month	3 month	Evanescent product
	CONDAPROTECT 451	•	•	•	•	•	Cireux	24 month	18 month	12 month	Evanescent product. Versatile. High protection



DEDICATED SERVICE OFFER FOR MACHINING

To enable you to remain focused on your activities, we offer you local support and the appropriate equipment to facilitate the use of our lubricants: in-service lubricant analyses, technical diagnostics, and application equipment.

In-service lubricant analysis

Our teams of chemists are supported by a state-of-the-art laboratory for regular monitoring of your soluble oils.



Application and distribution equipment

In order for our products to reach their full potential, CONDAT offers a range of application equipment adapted to the machining industry: dosing, spraying, cleaning, filtration. Do not hesitate to ask our equipment experts!



ZOOM ON 2 ESSENTIAL PIECES OF EQUIPMENT:

DOSAGE PUMP

To optimize your lubricant consumption in service, CONDAT offers you the appropriate dilution and dosing equipment for simple and precise control of your concentrations.

The **Dosatron** pump enables the precise injection of liquid concentrates via a water supply line. The Dosatron promotes homogeneous mixing and is easy to integrate into your workshop as it does not require an electrical connection.



DOSATRON: proportional hydro- motor dosing pump for the dosing of soluble machining oils.

OIL REMOVER

Soluble lubricants in machine tools are exposed to many sources of contamination: hydraulic oils, slideway oils, protective products.... these oils accumulate on the surface of the emulsion and encourage the growth of anaerobic bacteria. The use of oil separators (coalescence, belt, ring, etc.) allows emulsions/solutions to be cleaned effectively without stopping production.

The **MAX Band** oil remover is easy to handle, practical and can be easily adapted to different lubricant containers thanks to its universal clamp. Its revolutionary compressed air system also speeds up the collection of oils while avoiding the stagnation of emulsions.



CONDATRACK CONNECT YOUR MACHINING OILS

To facilitate the management of fluids, CONDAT also offers a 4.0 **autonomous remote gauging system: CONDATRACK.**

Thanks to sensors positioned on your oil storage tanks, this service allows you to know the exact stock level on a daily basis, to follow your lubricant consumption and to anticipate possible product shortages. Thanks to a customized internet platform and mobile application, users can **receive alerts by e-mail or SMS.**

The benefits:



CONNECTED

Follow your consumption in real time



ALERT

Avoid breakdowns and downtime



OPTIMIZATION

Master the ordering of your fluids



TIPS

CONDAT supports you in the management of your fluids



PRACTICE

Easy to install and autonomous sensor for 5 years



CONDAT

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