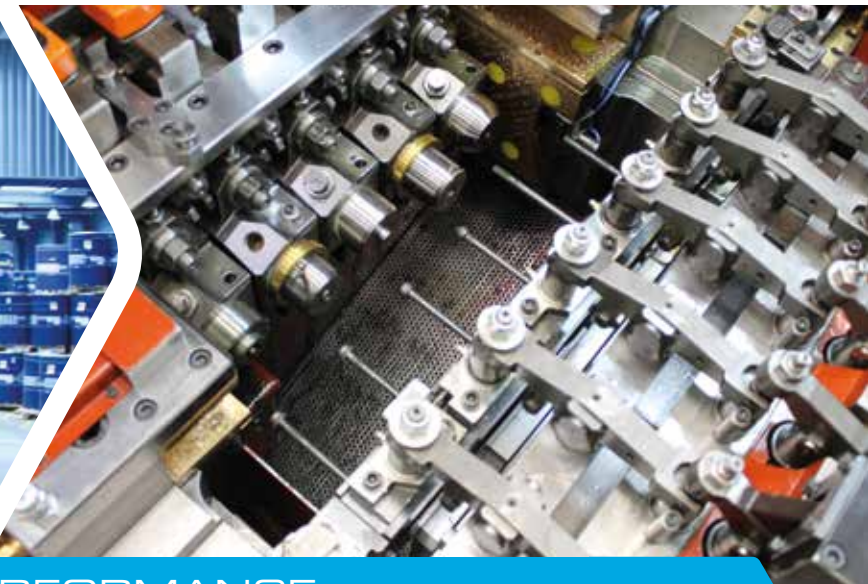




LUBRICANTS FOR COLD HEADING



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.

Recognized for years in the cold heading market, we work closely with machine manufacturers to formulate high performance and responsible lubricants. We provide you with a diversified and complete range, the fruit of our multi-specialist know-how.

Our products are suitable for all types of deformation operations, from the simplest to the most technical (from extruding to reverse extrusion).

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



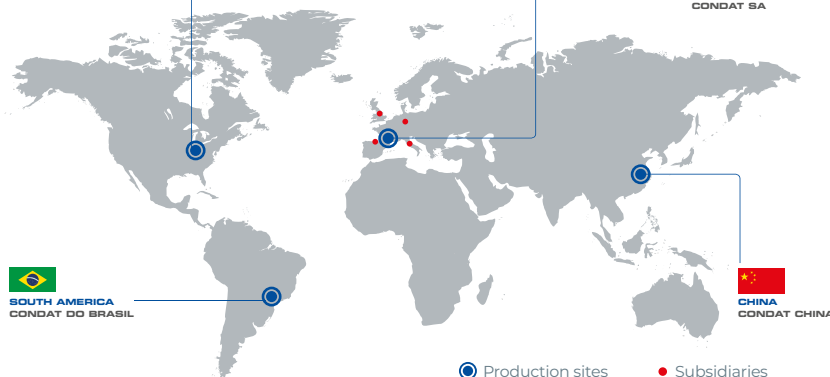
2 000
products


**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 and 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 act 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®**.

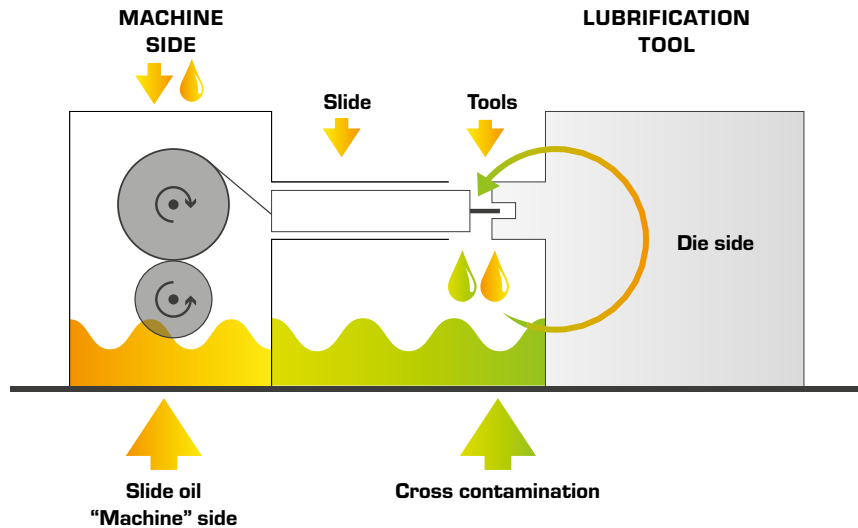
The LUBRISCORE® is a self-evaluation method that allows products to be rated according to life cycle criteria: Raw materials and design / Production / Transport / Use / End of life. On this basis of a point system and the answers given to about twenty questions, the LUBRISCORE® evaluates the level of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



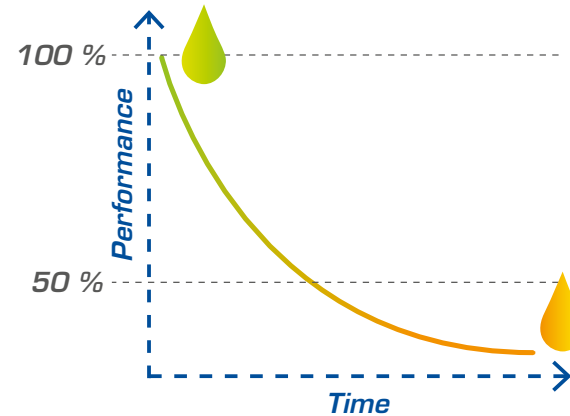
DUAL PURPOSE OILS

EXTRUGLISS® dual-purpose oils are formulated to lubricate the mechanical components of Cold Heading Machines as well as to provide exceptional lubrication to your forming operations. During forming operations, it is commonly observed that heading oils tend to become contaminated with slideways lubricants.

Cross-contamination of oils in service



Cross contamination through time



With EXTRUGLISS :
Suppression of
cross-contamination



Easy to use



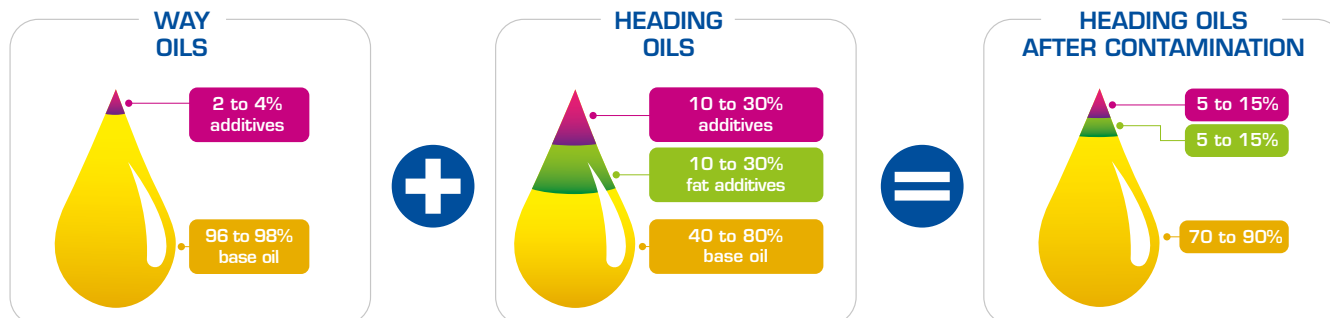
Sustainable performance
maintenance



Smoke reduction

Impact on oils composition

A way oil contains very few additives compared to a dedicated cold heading oil. After several hours of operation, this contamination can reach 30% to 60% on the die side oil. Due to the low additive content of way oils, this pollution affects the lubricating performance of the forming operation, reduces tool life and causes the generation of additional fumes.



With EXTRUGLISS®

ONLY ONE PRODUCT

No cross
contamination



Stable
product



**Dual purpose
Machine lubricants
+ Die side oil**



COLD HEADING LUBRICANTS



Mineral
Base



Dual
Purpose

EXTRUGLISS

Dual purpose lubricants meeting the requirements of your operations and the specifications of your machines.



Vegetable
Base



Dual
Purpose

EXTRUGLISS G

Vegetable base dual purpose combining performance and better environment foot print.



Cold
Heading

EXTRUDEX

High performance cold heading lubricant for the most demanding jobs.

BENEFITS:

Machine and process lubrication:

- Easy to use
- Suppression of cross-contamination
- Heavy duty performance

Increased productivity:

- Longer sump life
- Easy to clean

Cost reduction:

- Increased tool life
- Decreased drag out
- Low fumes

EXTRUGLISS

The **EXTRUGLISS®** range of dual purpose oils has been specifically formulated to optimize forming operations while guaranteeing long-lasting protection of your machine components. Developed for a 2-in-1 application, this range allows you to improve your lubricant budget by benefiting from a high-performance forming oil also suitable for the lubrication of your machines.

The use of **EXTRUGLISS®** allows you to reduce the drag out losses. It lowers the degreasing costs due to excessive oil pollution on parts as 90% of the consumption comes from the residue on the surface of the parts.

	VISCOSITY AT 40°C	LUBRICATION PERFORMANCE	LUBRISCORE®
EXTRUGLISS B 268	68 cSt		
EXTRUGLISS A 68 LS	68 cSt		
EXTRUGLISS HT 268	68 cSt		
EXTRUGLISS HT 268 VP	68 cSt		

	VISCOSITY AT 40°C	LUBRICATION PERFORMANCE	LUBRISCORE®
EXTRUGLISS B 210	100 cSt		
EXTRUGLISS FR 875	100 cSt		
CONDAMAX ALS	110 cSt		
EXTRUGLISS B 215	150 cSt		
EXTRUGLISS A 215	150 cSt		

EXTRUGLISS HT 268 VP : Reduction of evaporation

L'EXTRUGLISS HT 268 VP has been developed for heavy duty operations with high strength materials which generate excessive heat.

Formulated from highly refined base oils, it resists oxidation more durably. EXTRUGLISS HT 268 VP thus has a longer service life than a standard lubricant and facilitates degreasing by preventing the formation of sticky residues on the parts.

It is also less volatile and contains fewer residual compounds likely to degrade into PAHs, it generates less mist for better air quality in workshops.

Nebulization test

Measurement of mists generated in % of oil volume
According to protocol T 60-196

Standard mineral oil	EXTRUGLISS HT 268 VP

Conclusion : The test shows a 27% reduction in fog generation
Standard cold heading oil : 100%

EXTRUGLISS G

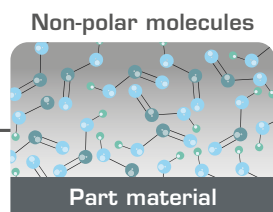
Keen to combine enhanced lubricating performance with reduced environmental impact, CONDAT offers the **EXTRUGLISS G**. Formulated with oils of renewable origin that act in synergy with carefully selected additives, they guarantee optimum performance for your operations.



Precursor of formulas based on vegetable esters

MINERAL OILS:

Oils of fossil origin are apolar and of varied composition

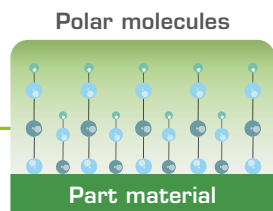


- unstructured film
- low adhesion
- limited lubricity

- high friction coefficient
- heating and wear

VEGETABLE OILS:

Vegetable oils are polar and of controlled composition



- structured film
- strong adhesion
- high lubrication power

- low friction coefficient
- heating and little wear

	VISCOSITY AT 40°C	LUBRICATION PERFORMANCE	LUBRISCORE®
EXTRUGLISS A 68 G	68 cSt		
EXTRUGLISS 268 WF	68 cSt		
EXTRUGLISS B 68 G	68 cSt		
CONDAMAX G	110 cSt		
EXTRUGLISS A 150 G	150 cSt		

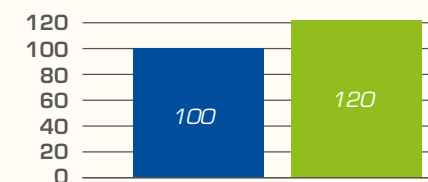
Extrugliss A 68 G: Renewable high performance

L'**EXTRUGLISS A 68 G** is an eco-designed oil according to our LUBRISCORE self-assessment system. It is formulated from vegetable raw materials that reconcile sustainability and lubricating performance. Our innovative technology enables similar or reduced tools consumption compared to mineral based oils while significantly reducing the environmental impact of your lubricant and improve the comfort of use for your operators.

Test: Steel deformation

Standard lubricant
vs **EXTRUGLISS A 68 G**

Lubricating performance (in %)



■ standard 68 cSt cold heading oil ■ EXTRUGLISS A 68 G

EXTRUDEX

EXTRUDEX products are designed for the lubrication of the most complex forming operations. Highly additived and/or highly resistant to temperature, they are particularly suitable for the extrusion of high grades alloy.

	VISCOSITY AT 40°C	LUBRICATION PERFORMANCE	LUBRISCORE®
EXTRUDEX 868	68 cSt		
EXTRUDEX FR 875	110 cSt		
EXTRUDEX MC 824	220 cSt		



EXTRUDEX FR 875

Thanks to its reduced viscosity and the integration of very high performance additives, **EXTRUDEX FR 875** is suitable for the most difficult deformation operations on hard materials such as stainless steels, titanium etc.

Its specific formulation enables the creation of a high-resistance lubricating film within the dies while reducing the drag-out losses. **EXTRUDEX FR 875** can significantly reduce the consumption of lubricant and associated costs.

*Training lab test on parts:
Amount of residual oil on part after 30 seconds*

200 cSt cold
heading oil

100 % —

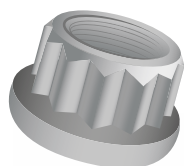


**EXTRUDEX
FR 875**

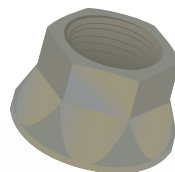
— 68 %

AEROSPACE

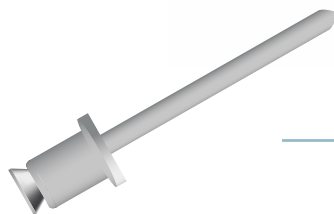
Aerospace fasteners represent the peak performance of the cold heading industry. The production of aerospace parts meets high quality standards. Thanks to its expertise and know-how, CONDAT will be able to assist you in choosing the most suitable lubricant for your high-performance alloy forming operations, of which here are a few examples:



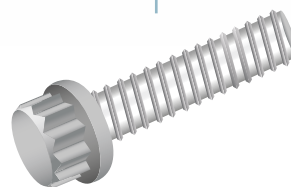
12 points head nut - steel 8740
▶ **EXTRUDEX 868**



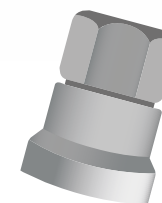
Titanium Nut
▶ **EXTRUDEX FR 875**



Stainless steel rivets A 286
▶ **EXTRUGLISS A 68 LS**



12 - point head screw - A 286
▶ **EXTRUDEX 868**



Collars nut - A 286
▶ **EXTRUGLISS FR 875**

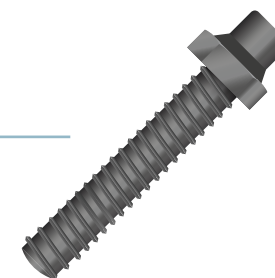
AUTOMOBILE

Recognized for its expertise and know-how, CONDAT offers a complete range of lubricants dedicated to the automotive industry. Our lubricants are optimized for the production of large series parts. Their formulas are specially adapted to the challenges of manufacturing thermal and electric vehicles. Our teams will be able to guide you towards the most appropriate technology.



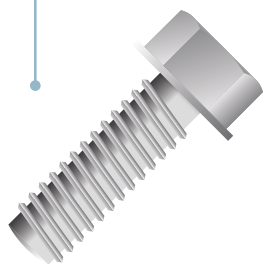
Classic screw

▶ EXTRUGLISS B 268



Cylinder head screws

▶ EXTRUGLISS A 68 G



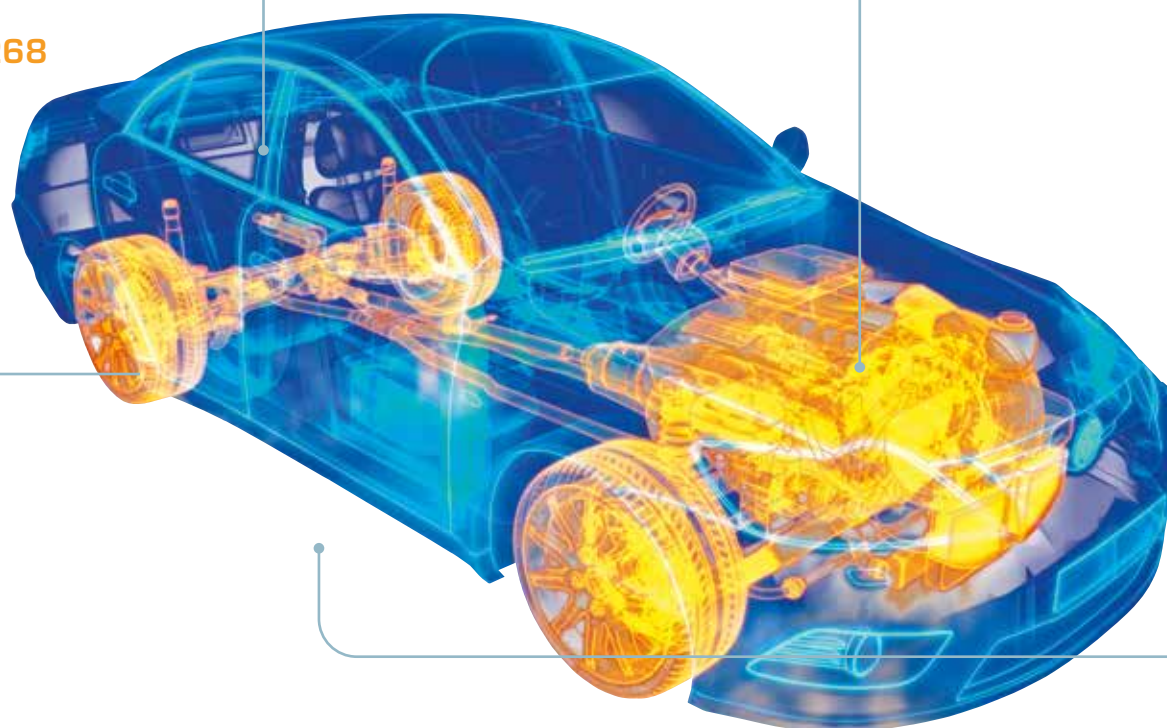
Wheel bolts

▶ EXTRUGLISS B 68 G



Brake system nut

▶ EXTRUGLISS HT 268 VP





COMPLEMENTARY PRODUCTS

Multi-specialist and benefiting from one of the widest offers on the market, CONDAT is able to offer you many complementary products to cover all your needs in the workshop. This simplifies the management of your fluids with a single point of contact.

Degreasers

We have developed a range of degreasers particularly suitable for cleaning our lubricants. They fit into a wide range of processes to ensure the cleanliness of parts after they have been manufactured.

		Steel	Zinc - Galvanized	Copper and Alloys	Aluminium and alloys	
ACID CLEANER	CONDACLEAN ALLMET	•	•	•	•	Very effective on residues of oils and soaps Ambient temperature up to 50°C
ALKALINE CLEANER	CONDACLEAN W 1400	•	•	•	•	Ambient temperature up to 60°C
	 CONDACLEAN BLUE	•	•	•	•	Heavy duty cleaner Temperatures from 45°C to 85°C
SOLVENT (Flash point > 60°C)	CONDACLEAN N°2	•	•	•	•	Evanescent product Low odor
	CONDACLEAN N°6	•	•	•	•	Evanescent product Scentless

Corrosion protection

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

		Steel	Zinc - Galvanized	Copper and Alloys	Aluminium and alloys	Dewatering effect	Film	Approximate duration of protection			
								Inside closed package	Inside opened package	Outside packaging under shelter	
WATER BASED	CONDAPROTECT 1271	•					Waxy	20%: 9 months	20%: 18 months	20%: 12 months	Mineral oil based emulsion Does not require heating High protection
OIL BASED	CONDAPROTECT 278	•				•	Oily	9 months	6 months	3 months	Low viscosity Flash point > 180°C
	CONDAPROTECT 1045	•				•	Oily	24 months	18 months	12 months	Medium viscosity Flash point > 180°C Protection excellent
SOLVENT BASED	CONDAPROTECT 1377	•				•	Waxy	9 months	6 months	3 months	Evanescent product
	CONDAPROTECT 451	•	•	•	•	•	Waxy	24 months	18 months	12 months	Evanescent product Versatile High protection

IN-SERVICE LUBRICANT ANALYSIS

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

LUBRICANTS ADAPTED TO YOUR EQUIPMENT

An approved lubricant is the assurance of choosing a reliable, quality product that will contribute to the proper functioning and protection of your equipment. CONDAT is committed alongside professionals to optimize your production tools and support you in your development, with its range of approved lubricants.

Contact our technical experts to guide you in your choice!



CONDAT

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