

«« Condat SA

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2024 marks a significant milestone for Condat, as the company celebrates its 170th anniversary, having demonstrated its ability to adapt, innovate and reinvent itself over the decades, using its extensive expertise.

The company provides a comprehensive range of borax-free products, from surface treatments to wire drawing soaps. First pioneering interest in this area over 20 years ago, Condat has expanded its borax-free range with a focus on operator health and environmental sustainability.

The company carefully selects raw materials for its formulations, aiming to minimise the use of CMR components and hazardous materials.

The French lubricant manufacturer offers products with minimal environmental impact without compromising performance and productivity.

It can offer personalised advice on implementing lubrication solutions. Recognising the unique needs of each wire drawing plant, Condat experts prioritise guiding partners towards optimal lubrication strategies.



Condat wire drawing lubricants

In line with its aim of responsible performance, Condat's objective is not to encourage excessive consumption but to assist wire producers in consuming less while consuming better.

In connection with eco-use, the Condat team can conduct on-site assessments to reduce total wire drawing costs, minimise workshop dust, enhance productivity and maximise the effectiveness of pre-coatings and wire drawing soaps.

Condat has been awarded the Platinum medal for its corporate social responsibility (CSR) by EcoVadis – in 2021 and renewed in 2023.

Condat SA
www.condat-lubricants.com

Condoroil Chemical Srl

10 B48

In the metalworking sector, cold formed screws and bolts are used in a wide range of applications. In the automotive sector, for example, they are used by manufacturers in vehicle parts, motors, steering, suspension and other demanding applications.

The classic production cycle for these components requires a preliminary conversion coating (based upon zinc phosphate) in order to create a layer that is able to absorb the lubricant (in most cases the lubrication is provided by soaps). This production cycle is complex and has high costs for the final user.

A traditional layout would be: pickling (chemical or mechanical), followed by activation, phosphating and rinsing, then neutralisation. The phases of activation, phosphating and rinsing involve high energy consumption (phosphating requires high bath temperatures) and production of waste – the activation bath needs to be drained frequently, rinsing water is discharged often, and the phosphating bath produces a large amount of sludge. Sludge removal, bath make up and maintenance also have high labour costs.

This process is critical for the final result, as a small variation of the operational parameters can cause the formation of a non-cohesive phosphate layer and problems with the subsequent drawing step. A modest problem in the conversion phase, such as a temperature drop during phosphating, may cause damage to the drawn plates, prolonged production stops and the production of processing waste.

In order to solve these problems, Condoroil has developed a new pre-treatment process based on its Condorlube DF 18 product. The use of the polymer-based Condorlube DF 18 enables a reduction of the production cycle for the chemical pre-treatment before the drawing/moulding operation.

Condorlube DF 18 creates on the component surface a thin and well-adhered lubricating layer. Depending on the severity of the operation, the treated component may be subjected directly to the cold forming operation or to a subsequent treatment with drawing soaps.

Condoroil states that treatment with Condorlube DF 18 totally replaces the phosphating phases, resulting in a simplified production cycle: pickling (chemical or mechanical), then treatment

with Condorlube DF 18, followed by drying.

Condorlube DF 18 can be applied both in-line and by immersion. Residues can be easily removed with an alkaline degreaser.

Condoroil Chemical Srl
https://condoroil.com

Continuus-Properti SpA

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Continuus-Properti is a supplier to various industries, including automotive batteries, foundry equipment for ingot casting, and rotary extrusion.

Copper CCR lines have been developed since the early 1960s in a variety of sizes for both small and large copper rod producers. The present range of standard plants available in Continuus-Properti's production programme are small (5 to 10 tph, with expected yearly output from 25,000 to 58,000 t); medium (12.5 to 20 tph, and from 61,000 to 115,000 t per year); and large (25 to 40 tph, yearly output of 125,000 to 250,000 t).

These lines can be equipped with furnace systems for ETP (cathodes) as raw material, or FRHC furnaces for copper scrap recycling. Depending on specific cases and customer needs, there are three main refining processes to obtain high quality FRHC rod, with a variety of refining furnace capacities ranging from 40 to 250 tons. Several plants have been delivered with a combination of ETP and FRHC furnaces, providing flexible solutions to the users.

A natural development of the Properti rolling technology is the patented Properti Self-Annealing Microrolling® (SAM) method, which replaces the conventional drawing/annealing processes while providing energy savings.

The ETP or FRHC 8mm wire rod is rolled down to the sizes suitable for high-speed multi-wire drawing of smaller diameters, without the need for annealing.

Aluminium is another major branch in the company's range of products, with CCR aluminium rod lines and special lines for welding wire and master alloys. The smallest lines can produce 1.5 tph to 3.5 tph, while the extra-large production output handles 8 to 15 tph, reaching a yearly output of up to 100,000 tons.

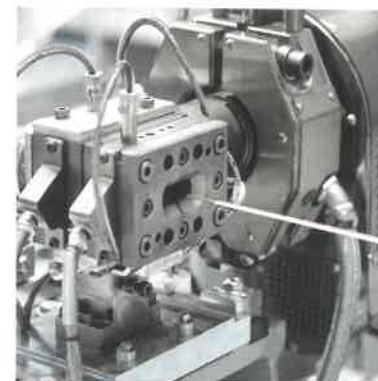
According to the alloy types and line size, the coils produced can be loose or tight.



hairpin extrusion from A to Z



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