

FOR A SUSTAINABLE WORLD

FUNCTIONAL FLUIDS for

**COPPER & ALUMINIUM**  
*metalworking*

- *IMPROVE YOUR QUALITY PROCESS*
- *IMPROVE THE LIFE OF YOUR PLANT*
- *IMPROVE SAFETY AND ENVIRONMENT*
- *IMPROVE YOUR PROFIT*



**TECHNOLOGICAL SOLUTIONS**  
**FOR YOUR PROCESS**



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## The company

Foundry Alfe CHEM operates in the field of lubrication and chemical auxiliaries for manufacturing and industrial processes. The R&D area, the production, logistics, technical and administrative offices are committed to continuous product improvement and customer satisfaction. Foundry Alfe CHEM offers a portfolio of lubricants suitable for different types of process and destined for various industrial sectors, foundry and metalworking in particular. The Foundry Alfe CHEM structure means people and organization, and, thanks to the continued interest in finding new technologies and to the focus in solving the most complex problems, it offers innovative products, high technical competence and the best service.



### Copper and aluminium wire drawing

Foundry Alfe CHEM drawing series is composed of products that are designed to guarantee outstanding lubrication and optimal protection from corrosive phenomena, easy filterability, low foam, high detergency, cleanliness and a bright surface finish. With the low free acidity which characterizes the formulations of this range, Foundry Alfe CHEM drawing series is particularly designed to limit the formation of metallic and organic soaps and oxides. Foundry Alfe CHEM drawing series permits to achieve faster drawing speeds, with very low percentage of breakage, offers high stability and an improved life of emulsion and extruders. This range of products shows high stability to bacterial attack and to oxidative phenomena; moreover, they are designed to be stable even to hard water.

The series includes different products for various systems:

- Break-down machines: single and double wire
- Multiwire machines
- Annealing line

For what concerns the copper drawing, the product that best represent the described characteristics is **Alfedraw SB 1**.

The great innovation that Foundry Alfe CHEM presents in this sector is the emulsifiable oil **Alfedraw SYNT CA**, a product that, besides having the properties mentioned above, introduces the possibility to use one product for the metalworking of both aluminium and copper, with excellent results for the different metals by using a single product.

## Technical assistance

Foundry Alfe CHEM offers to its customers tailor-made technical assistance and quality control, to achieve the best results enhancing the peculiarity of the process and of the final product.

The system of R&D and quality control of Foundry Alfe CHEM guarantees complete assistance through the whole process, in order to offer the best solutions and to create a real and constant partnership with the customer.

*Each activity is conducted under a Quality Management System (QMS) to comply with the requirements of UNI EN ISO 9001:2008.*

## R & D

An R&D activity focused on the utmost integration of compatible raw materials has led Foundry Alfe CHEM to the creation of lubricants and chemical auxiliaries for the processing of metals that ensure highly technological solutions with ever increasing environmental sustainability and excellent conditions of hygiene and safety in the workplace.

These innovative products will allow users to remarkably optimize the production both in terms of technological performance and of reduced consumption, without renouncing to the amelioration as regards environmental sustainability.

### Copper and aluminium rod rolling

Foundry Alfe CHEM offers lubricants with high technology to carry out the hot rod rolling with specific products for copper, aluminium and alloys.

### Copper and Aluminium tube production

Foundry Alfe CHEM developed a product range for tube production characterized by an optimal balance between lubricating, detergent and film-forming properties, combined with a very low ash content, thus ensuring a perfect cleaning of the surface after the annealing treatment.

### Copper and Aluminium cutting

The products of the cutting oils line by

Foundry Alfe CHEM offer high wetting, coolant and lubricant properties, giving an excellent surface finish of the final product.

All the products contain an effective preservative package that prevents oxidative and biological degradation processes, with a significant increase in service life of tools and metalworking fluid.

Compared to conventional products, Foundry Alfe CHEM oils ensure low power consumption and limited percentage of refilling, thereby making economical the use of this products.

The special formulations of the emulsifiable oils included in the range ensure excellent behavior with waters of different hardness, without any problem related to foam or oily sludge, and a high detergent action, with good properties of metallic fines' removal, that allows a good cleaning of the working area.

### Detergent with protective action

Foundry Alfe CHEM also offers a line of detergents suitable to remove all residuals from the worked piece, ensuring at the same time the protection of the surface from corrosion.

The available products are specifically ideated for copper and aluminium.

*Besides the mentioned products, Foundry Alfe CHEM offers a broad range of solutions for every application.*

## Technical solutions

Foundry Alfe CHEM offers a complete range of products for various metalworking processes of copper and aluminium, from the most classic neat oils up to the latest technological innovations.

The Foundry Alfe CHEM line comprises new high-tech products that keep abreast of the ever increasing requests in terms of production speed and final quality. All the Foundry Alfe CHEM lubes presents the following benefits:

- NEW HIGH-TECH PRODUCTS
- HIGHER SPEEDS AND SMALLER DIAMETER
- LOW PERCENTAGE OF BREAKAGE
- OUTSTANDING LUBRICATION
- EASY FILTERABILITY
- HIGH DETERGENCY
- EASY WASH OFF
- CLEANLINESS OF THE FINAL PRODUCTS
- BRIGHT SURFACE FINISH
- OPTIMAL PROTECTION FROM CORROSIVE AND OXIDATIVE PHENOMENA
- HIGH STABILITY
- IMPROVED SERVICE LIFE OF TOOLS

