



FOR A SUSTAINABLE WORLD

functional FLUIDS

Metalworking Fluids

- **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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ALFE CHEM INDIA

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ALFE CHEM INDIA

Olitema



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 about environmental sustainability.



Technology

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

The Olitema line comprises new high-tech products that keep up with the ever increasing requests in terms of productivity and final quality. All the Olitema lubes presents the following benefits:

- HIGH PRODUCTIVITY
- OUTSTANDING LUBRICATION
- EASY FILTERABILITY
- HIGH DETERGENCY
- CLEANLINESS AND PROTECTION OF THE MACHINE TOOLS
- EXCELLENT FINAL QUALITY
- OPTIMAL PROTECTION FROM CORROSIVE AND OXIDATIVE PHENOMENA
- HIGH STABILITY OF THE METALWORKING FLUID
- IMPROVED SERVICE LIFE OF TOOLS

All products contain an effective preservative package that prevents the oxidation and biological degradation processes, usually responsible for the lubricating fluid alterations and the development of bad smells and rust, with a significant increase of the operating life of the tools and of the fluid.

The particular formulation of soluble and emulsifiable oils included in the line ensures outstanding performance with waters having different hardness, without any problem related to the formation of foam or sludge. In addition, the Olitema emulsions possess among their characteristics also a high detergent action with good removal properties of metal fines, thus allowing a good cleaning of the machine and, more generally, of the working place.

Compared to traditional products, the Olitema lubricating fluids ensure a low energy consumption and limited percentage of refilling, thus making economical the use of such products.

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 to 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.



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, 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.



Grinding fluids

GRINDING FLUIDS - SOLUBLE

Product	Application	Description	Characteristics
Alfegrind SB	Light operations on: <ul style="list-style-type: none"> • cast iron • steel • aluminium • copper and alloys 	Fully synthetic soluble fluid, ideal for surface grinding	<ul style="list-style-type: none"> • High detergency • Low foam • Optimal corrosion protection • Hard water stability • High resistance to biological attack
Alfegrind SB PLUS	Medium-heavy operations on: <ul style="list-style-type: none"> • cast iron • steel • aluminium • copper and alloys 	Fully synthetic soluble fluid, recommended for grinding with material removal	<ul style="list-style-type: none"> • High detergency • Good lubrication • Low foam • Optimal corrosion protection • Hard water stability • High resistance to biological attack

GRINDING FLUIDS - NEAT

Product	Application	Description	Characteristics
Alfegrind A	Medium-heavy operations on: <ul style="list-style-type: none"> • cast iron • steel • aluminium • copper and alloys 	Neat oil, ideal for grinding	<ul style="list-style-type: none"> • High lubrication • Excellent surface finish • Optimal protection from corrosion and oxidation • Chlorine-free

GRINDING FLUIDS - NEAT - BIO LINE

Product	Application	Description	Characteristics
Alfegrind A BIO	Medium-heavy operations on: <ul style="list-style-type: none"> • cast iron • steel • aluminium • copper and alloys 	Mineral oil free neat fluid, ideal for grinding	<ul style="list-style-type: none"> • High lubrication • Excellent surface finish • Optimal protection from corrosion and oxidation • Chlorine-free • High percentage of biodegradable components

Cutting oils - emulsifiable

CUTTING OILS - EMULSIFIABLE

Product	Application	Description	Characteristics
Alfecut SA	Light operations on: <ul style="list-style-type: none">• cast iron• steel• aluminium	Emulsifiable oil, ideal for metal cutting	<ul style="list-style-type: none">• High wetting, coolant and lubricant properties• Excellent detergency• Excellent surface finish• No stain• High stability to oxidation and corrosion• Low foam• Hard water stability• Free from chlorinated additives, boron, formaldehyde, secondary amines• High resistance to biological attack
Alfecut SA PLUS	Medium-heavy operations on: <ul style="list-style-type: none">• cast iron• steel• aluminium	Emulsifiable oil, recommended for mechanical machining with chip removal in which a greater lubrication is required	<ul style="list-style-type: none">• Optimal EP and anti-wear properties• High wetting and coolant properties• Excellent surface finish• No stain• High stability to oxidation and corrosion• Low foam• Hard water stability• Free from chlorinated additives, boron, formaldehyde, secondary amines• High resistance to biological attack



CUTTING OILS - EMULSIFIABLE - BIO LINE

Product	Application	Description	Characteristics
Alfecut SA BIO	<p>Light operations on:</p> <ul style="list-style-type: none"> • cast iron • steel • aluminium 	Mineral oil free emulsifiable fluid, ideal for metal cutting	<ul style="list-style-type: none"> • High wetting, coolant and lubricant properties • Excellent detergency • Excellent surface finish • No stain • High stability to oxidation and corrosion • Low foam • Hard water stability • Free from chlorinated additives, boron, formaldehyde, secondary amines • High percentage of biodegradable components • High resistance to biological attack
Alfecut SA BIO PLUS	<p>Medium-heavy operations on:</p> <ul style="list-style-type: none"> • cast iron • steel • aluminium 	Mineral oil free emulsifiable fluid, recommended for mechanical machining with chip removal in which a greater lubrication is required	<ul style="list-style-type: none"> • Optimal EP and anti-wear properties • High wetting and coolant properties • Excellent detergency • Excellent surface finish • No stain • High stability to oxidation and corrosion • Low foam • Hard water stability • Free from chlorinated additives, boron, formaldehyde, secondary amines • High percentage of biodegradable components • High resistance to biological attack

CUTTING OILS - EMULSIFIABLE - COPPER AND BRASS

Product	Application	Description	Characteristics
Alfecut 106 CU	<p>From light to medium-heavy operations on:</p> <ul style="list-style-type: none"> • copper and alloys 	Emulsifiable oil, ideal for cutting of copper and alloys	<ul style="list-style-type: none"> • High workability • High lubricity • Excellent corrosion protection • Excellent surface finish • Durable emulsion • Reduced formation of metallic soaps and fines

Cutting oils - net

CUTTING OILS - NEAT

Product	Application	Description	Characteristics
Alfecut NB1	Minimal lubrication of: <ul style="list-style-type: none"> • steel • aluminium 	Neat cutting fluid, designed for operations with minimal lubrication (mist application)	<ul style="list-style-type: none"> • Easy to spread • Excellent balance between cooling and lubricant performances • Non-hazardous mists and vapors • Good detergency • High wettability
Alfecut A	Light operations on: <ul style="list-style-type: none"> • cast iron • steel • aluminium • copper and alloys 	Neat oil, ideal for metal cutting	<ul style="list-style-type: none"> • High lubrication • Excellent surface finish • Optimal protection from corrosion and oxidation • Chlorine-free
Alfecut A PLUS	Medium-heavy operations on: <ul style="list-style-type: none"> • cast iron • steel • aluminium • copper and alloys 	Neat oil, recommended for mechanical machining with chip removal in which a greater lubrication is required	<ul style="list-style-type: none"> • Optimal EP and anti-wear properties • Excellent surface finish • Optimal protection from corrosion and oxidation • Chlorine-free

CUTTING OILS - NEAT - BIO LINE

Product	Application	Description	Characteristics
Alfecut A BIO	Light operations on: <ul style="list-style-type: none"> • cast iron • steel • aluminium • copper and alloys 	Mineral oil free neat fluid, ideal for metal cutting	<ul style="list-style-type: none"> • High lubrication • Excellent surface finish • Optimal protection from corrosion and oxidation • Chlorine-free • High percentage of biodegradable components
Alfecut A BIO PLUS	Medium-heavy operations on: <ul style="list-style-type: none"> • cast iron • steel • aluminium • copper and alloys 	Mineral oil free neat fluid recommended for mechanical machining with chip removal in which a greater lubrication is required	<ul style="list-style-type: none"> • Optimal EP and anti-wear properties • Excellent surface finish • Optimal protection from corrosion and oxidation • Chlorine-free • High percentage of biodegradable components