



SPECIALTY CHEMICALS

+ Talent + Added

+
+



CECA men and women deliver more than just formulas, they deploy the full range of their skills to enhance your added-value.

CECA
ARKEMA GROUP

Specialty Chemicals: talent added

CECA, a subsidiary of the ARKEMA Group, is a world player in specialty chemicals. CECA men and women deliver more than just formulas, they deploy the full range of their skills to enhance your added-value.

Four product groups form the heart of our business.

CECA manufactures and develops chemical intermediates and additives:

- > **Adsorbents,**
- > **Additives,**
- > **Filter Aids,**
- > **Surfactants.**

SPECIALTY CHEMICALS

Priority to added performance for our customers.

CECA relentlessly strives to improve its customers' performance, and manufactures and develops for them more suitable and more competitive products with new properties. As a provider of solutions, CECA offers answers to the specific problems of major industrial players.



A CECA solution is the combination of optimised product with added value services.

Mutually beneficial expertise, shared experience.

Through concerted work, the men and women of CECA design, test, and develop on an industrial scale the most suitable processes for your activities, while:

- > reducing your investment and operating costs,
- > improving your quality and your reliability.

To reach further in order to create value with your teams is our prime motivation.





Passion drives innovation.

CECA's research and development is a driving force for innovation in its activities. Two research and development centres underpin this process:

- > the **Centre de Recherche Rhône Alpes** research facility,
- > the **Groupement de Recherche de Lacq** research facility.

A fully-committed manufacturer.

To be a proactive Specialty Chemicals producer is not something you can improvise.

CECA relies on an extensive international base with 17 production sites. A proactive and reactive approach are the norm throughout our plants, most of which are ISO 9001 version 2000 accredited.

CECA has adopted the ISO 14001 standard for the recognition of its commitment to the environment at various sites.

Factories attentive to their environment.

As part of its Common Ground® programme, CECA opens up its factories to the outside world. Through concertation and dialogue, we are committed to establishing lasting relations with our stakeholders (elected officials, the general public, etc.).

Safety in action.

Because safety is also a driving force for progress, CECA invests a great deal of energy into its Safety in Action® programme. This ARKEMA management system helps us enhance our safety performance, and, as such, is a priority. It involves our personnel evaluating the risks, as well as improving their behaviour on a daily basis.



SPECIALTY CHEMICALS



Talent

Personal commitment from our men and women

Our teams constantly help drive specialty chemicals forward. By sharing the same culture of excellence and performance, they translate these values into their management practices.

A passion for your business.

Specialty Chemicals is an ever changing business.

This is what attracts and captivates our employees. Driven by a quest to learn and progress, they spare no effort in developing innovative chemicals that will benefit your company.



Géraldine Perrier | Molecular Sieves - Customer Service.

My mission: to work with the major engineering companies, ensuring that their orders are processed smoothly and rigorously. I like this kind of direct contact, in which I bring my experience of the processes, the quality, and the regulations specific to each country.

With each new day comes another challenge.

Guillaume Legouis | Bitumen Additives - Marketing.

For our customers, we have been on the road for over 30 years. A capital of valuable experience that helps us constantly fine-tune emulsion techniques.

Our customers' challenges fuel our creativity: our latest additives range accommodates lower coating temperatures, while considerably reducing CO2 emissions without impairing the performance of hot techniques.



Roger Horn | Oilfield chemicals - Sales.

Every day is different, and this is what I like. The chemistry of oil additives is changing at a fast pace, driven by performance, safety, and environmental protection.

In this job, trust is paramount, and the challenge for me is to supply my customers with enhanced products and solutions in terms of information, service, and added value.



Inspired by your projects.

Our prime mission is to understand your problems in order to develop the optimum solution for your industry.

Mutually beneficial expertise, shared experience. With all its enthusiasm and all its energy, CECA places you at the heart of its mission.

Patrick Gaillard | Phosphorus Specialties - Management.

Phosphorus chemistry is developing every day: the potential for innovative, unconventional solutions has no limit, and the reactivity of a dynamic team is a vital key to success. By sharing our process expertise with our customers, we bring them service, technology and know-how for the manufacture of ultra-pure products.



Added



Laure Sarrazin | Specialty Surfactants - Marketing.

The key words of my job: exchange, dialogue, openness and attention to my customers. Like us, they look for more targeted product solutions, with new properties. I like explaining to them the physico-chemical phenomena involved in their formulations, thereby enhancing our product package. In some way, our products are innovation precursors.



Eduardo Bolivar | Molecular Sieves - Sales.

There are over 100 applications for our molecular sieves. Our engineers know them all. They assist our customers with making them increasingly cost-effective.

This unique know-how explains our breakthrough in the highly competitive markets of the United States and South America.

SPECIALTY CHEMICALS



Valter Gamba | Activated Carbon - Technical Support.

You need years of experience to be the most reactive supplier. In pharmaceuticals and in food processing, we offer preselections of samples and analysis systems to help us to reach an optimum solution more quickly. By remaining vigilant regarding draft regulations, we help our customers to anticipate.

Motivated by your performance.

Your success is our success.

We never forget that we work to enhance our products' performance, and to improve your safety and your competitiveness. At every level of our Company, we are inspired and driven by the quest for your performance.

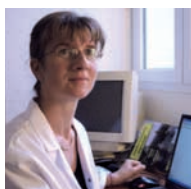
Dominique Plee | Molecular Sieves - R&D.

There is always something new to find out, to develop on an industrial scale. I like challenges that can be realised: improving the capacities and kinetic properties of adsorbents, the conversion and the selectivity of catalyst carriers. I also love a job that lets you go beyond your objectives and sometimes even exceed expectations.



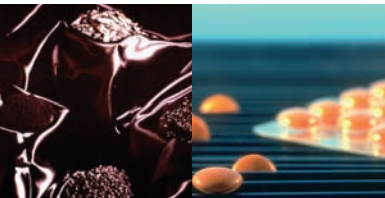
Sandrine Duclos | Filter Aids - QHSE.

Understand our customers' filtration requirements, identify critical points at our site and plan their control, conduct analyses to the nearest microgram, protect the environment, protect the products and the operators: my job consists in making other people's jobs safer.



Activated Carbon

Impurities
stand no chance



Ceca offers one of the largest ranges of Activated Carbon in the market, with outstanding adsorption properties.

This Activated Carbon range is produced from pine-wood, coconut shell and other vegetable and mineral bases.

With our products, impurities stand no chance.

SPECIALTY CHEMICALS

**Our expertise benefits
the following industries:**

- > Food processing,
- > Beverages,
- > Chemicals,
- > Environment,
- > Water,
- > Pharmaceuticals,
- > Petrochemicals, refining and natural gas.

Our Activated Carbon flagship tradename:

ACTICARBONE

Our production sites:

**Parentis en Born (France),
Legnago (Italy).**

**Focus on environmentally sound solutions satisfying our
customers' concerns:**

Activated Carbon regeneration: know-how from Italy.

Regeneration involves a high-temperature treatment designed to destroy the organic pollutants which have been trapped, and free up the adsorbent's pores, thereby restoring the latter's original performance. CECA has made Activated Carbon regeneration one of its specialties. We process Activated Carbon in our Italian plants in complete safety, based on our customers' needs.

CECA's shuttle service:

Compact adsorbents, on demand, in your plant.

The shuttle scheme entails replacing without delay spent shuttle containers by others held in stock to meet your requirements. The system offers an additional benefit: we collect the spent activated carbon to regenerate it, a truly cost-effective and environmentally responsible treatment solution.

Talent **Added**

Filter Aids

Pure added value,
Integrated filtration solutions



CECA is one of the world's leading diatomite and perlite filter aids producers. Diatomite is a fossil mineral which CECA mines from its own deposits. Available in natural, calcined and calcined/activated form, these products eliminate the particles contained in liquids with optimum results.

CECA also processes perlite, a mineral of volcanic origin. Perlite is expanded by rapid heating and finely crushed to become an excellent filter aids.

SPECIALTY CHEMICALS

Our expertise benefits the following industries:

- > Food processing,
- > Automotive,
- > Beverages,
- > Chemicals,
- > Water,
- > Metallurgy,
- > Pharmaceuticals,
- > Coatings (functional additives).

Our flagship tradenames:

CLARCEL

Clarcel®
Clarcel Flo®

Diatomite
Perlite

Our production sites:

Honfleur (France),
Riom-ès-Montagne (France),
Saint Bauzile (France),
Piolletto (Italy),
Salerno (Italy),
Strood (United Kingdom).

Focus on the *Perliting* activity: a customised business

The *Perliting* cryogenic insulation technique using expanded perlite is a CECA specialty. CECA offers customised *Perliting* services, from consultancy to the on-site expansion of Cecaperl® perlite whatever the application or the site location.

- > Cryogenic insulation for LNG Tanks,
- > Insulation of liquid gas tanks: nitrogen, oxygen, methane and other gases,
- > Insulation of air separation plants,
- > Insulation of methane-propane carriers.

Talent **Added**

Bitumen Additives

Bitumen + aggregates: the perfect bond



Famous for its expertise in road construction techniques, CECA offers the most effective additives range in the market.

Adhesion agents, emulsifiers and process additives help create the bitumen-aggregate bond, and protect it over the long term in all circumstances, in cold and in hot processes, in new road construction and in road maintenance alike.

SPECIALTY CHEMICALS

Your applications:

> **Grave emulsions and Dense Cold Mixes**

Emulsifiers and compaction additives.

> **Slurry Seals and Micro surfacing**

Emulsifiers, breaking control additive, Improved Cohesion additives.

> **Surface dressing**

Emulsifiers and interface additives.

> **Hot mix**

Adhesion agents,
Reduced Coating Temperature additives.

Our flagship trade names:

**Dinoram®,
Polyram®,
Stabiram®,
Cecabase®,
Emulsamine®.**

Our production sites:

**Chateauroux (France),
Feuchy (France).**

A dedicated partner to road contractors and emulsion manufacturers:

Our expertise in bitumen and the constraints of aggregates, the support of our specialist laboratory, and a daily on-site presence illustrate the professionalism of CECA, an active partner to road contractors and emulsion manufacturers.

Talent **Added**

Molecular Sieves

Interactivity, dynamism, commitment:
Molecular Sieves experts at your service



Our teams' know-how has allowed us to develop a range of synthetic zeolites with remarkable and durable selective adsorption properties.

By developing these products to match your requirements, CECA has become a high performance partner to the major players of industry.

SPECIALTY CHEMICALS

Our expertise benefits the following industries:

- > Automotive,
- > Construction,
- > Chemicals,
- > Natural gas,
- > Industrial gas,
- > Pharmaceuticals,
- > Petrochemicals and refining.

Our flagship tradenames:

Siliporite® Molecular Sieves,
Cecagel® Silica Gel.

Our production sites:

Honfleur (France),
Inowroclaw (Poland).

Mutually beneficial expertise.

You know your plant, and you have defined the performance you require. Together, we can help you achieve this by:

- > Evaluating your requirements and adjusting the product mix to your plant: the choice of molecular sieve and the best related products (silica gel, alumina beads, ceramic beads).
- > Improving your process. We constantly handle different cases in the field. Our experience is the guarantee of our joint success.
- > Assisting your teams on site. Our Technical Department will handle your most stringent requirements.

To find out more, go to: www.siliporite.com and www.absorbents.com

Contact: siliporite@ceca.fr

Talent **Added**

Specialty Surfactants

Tailor-made Surfactants
at the heart of your work



Our Surfactants match your application:

We fulfill your requirements by providing tailor-made solutions. Our comprehensive range of cationic, anionic, non-ionic and amphoteric surfactants, combined with our know-how, help us identify a solution for your specific application, the key to a successful formulation.

We offer solutions that are specially adapted to the following applications, among others:

Industrial and institutional detergents. Scale removal, degreasing, detergent, foaming, low-foaming, thickener.

Inilam®, Cecajel®.

Fertiliser additives. Anticaking; protection from dust and moisture pick-up.

Fluidiram®

Polymer additives. Dispersion of mineral fillers, antistatic treatment, process optimisation.

Noroplast®.

Ink, paint and pigment additives. Dispersion of fillers, emulsion polymerisation, anti-wear, rheology, pigment manufacture.

BeycoStat®, Remcopal®.

Water treatment. Corrosion inhibitor, antifouling.

Norust®.

Concrete. Form removal oil, anti-corrosion, rheology.

Inipol®.

And for your specific application, please contact us.

Our production sites:

**Chateauroux (France),
Feuchy (France).**

CECA's Technical Assistance for your developments.

Our engineers and laboratories offer their physico-chemical knowledge and their formulation know-how which, combined with our extensive range of surfactants, help you with your developments.

Talent **Added**

Oilfield chemicals

Our treatment range
Your success



With 50 years' expertise at the service of the oil and gas industry, our experience is unique! We have the necessary know-how to develop the innovative product fulfilling your ever-changing needs.

SPECIALTY CHEMICALS

Our range of applications:

- > Treatment of production and injection water,
- > Flow assurance (paraffin inhibitor, demulsifier),
- > Corrosion treatment (corrosion inhibitor, biocide),
- > Marine pollution.

Our flagship tradenames:

Prochinor®,
Norust®,
Inipol®,
Bactiram®.

Our production sites:

Feuchy (France),
Chateauroux (France),
Abu Dhabi (UAE),
Alexandrie (Egypt),
Damman (Saudi Arabia),
Kemaman (Malaysia).

Your performance is **our priority.**

Your requirement: to increase your production, extend your run length at a lower OPEX while facing increasingly difficult technical challenges and more stringent HSE standards.

Our commitment: to offer chemical solutions and related services fulfilling your ever-changing requirements.

Our assets: a comprehensive range of products and solutions, experienced and highly specialised teams on standby, and a strong presence in the field. Our reference project lists are available on request.

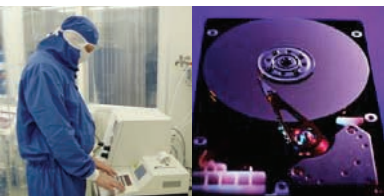
To find out more, go to: www.ceca.fr

For further information, please contact us at: oilfield-chemicals@ceca.fr

Talent **Added**

Phosphorus Specialties

High performance
at our customers' service



The Phosphorus Specialties Department manufactures and markets high performance products for wide-ranging applications:

Electronics:

We offer an extensive range of phosphoric acid grades, with a distinct presence and strong expertise in ultra-pure phosphoric acid for the manufacture of integrated circuits in the electronics industry.

Chemical nickel-plating:

Sodium hypophosphite is used to apply a layer of nickel without electrolysis, for computer hard disks, as well as in automotive manufacture and in decoration.

Construction and sailing:

NEW! The Strimix® paint stripper.

Flame retardant and biocide:

THPC and THPS are used in the textile industry and in water treatment.

Our flagship tradenames:

Ultrabex®,
Strimix®.

Our production sites:

Bex (Switzerland),
Pierrefitte (France).

SPECIALTY CHEMICALS



Talent **Added**

High performance at the service of international customers:

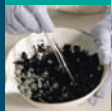
The Phosphorus Specialties Department focuses on improving its products and on its customers' expectations by developing more suitable and more competitive products boasting new properties.

The various chemical reactions producing ultra-pure phosphoric acid and high quality sodium hypophosphite are highly complex. Although the knowledge of these reactions is well documented, their application on an industrial scale remains an ongoing challenge!

The solutions offered by the Phosphorus Specialties Department combine optimised product with added value services (packaging, specific properties, purity). "Specialty Chemicals" is indeed Febex's business, as illustrated by the complexity of both the products and their uses, in highly targeted activities, and the existence of a genuine know-how.

To find out more, go to: www.ceca.fr

Bitumen Additives



Phosphorus Specialties



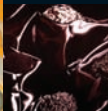
Oilfield chemicals



Filter Aids



Activated Carbons



Molecular Sieves



Specialty Surfactants



A subsidiary of the ARKEMA Group, CECA is a world player in Specialty Chemicals.

CECA constantly strives to improve its customers' performance by formulating and developing chemical intermediates and additives.

With operations in over 100 countries, CECA has a strong international industrial base, as well as two research centres (GRL and CRRA) dedicated to Customer innovation.

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