

Almussafes factory

Key data. Year 2022



Factories



Key data from the Almussafes factory. Year 2022

- In 1969, the production of formaldehyde and resins began.
- In 1977 the factory began to produce paraformaldehyde with its own patented technology.



The north industrial estate of Almussafes



Business model

- Formaldehyde is the core product of the Almussafes factory and methanol its main raw material.
- 80% of the formaldehyde produced is used for the manufacture of derivatives, both liquids such as resins, and solids, such as paraformaldehyde.
- Solid products account for around 65% of the division's turnover and have a world-wide market, with an export of 90%.
- Liquid products, due to their water content and, therefore, higher transport costs, have a market limited to a radius of between 800 and 1,000 km from the production centre.



Production and facilities



Scheme of the production process in Almussafes



Products, applications and market share. Year 2022

Products	Applications
Formaldehyde	Manufacture of derivatives
Paraformaldehyde	Resins and petrochemicals
Melamine resins	Low pressure laminates
Urea resins	Wood Industry
Phenolic resins	High pressure laminates

Ranking by market share			
	Spain	Europe	World
Resins	2 nd	7 th	-
Formaldehyde	1 st	5 th	-
Paraformaldehyde	1 st	1 st	1 st

The data provided comes from calculations made by Ercros.

Formaldehyde (CH₂O)



Formaldehyde, present in our environment

- In foods, such as fruits, meats, and vegetables (sometimes in large doses).
- In the natural decomposition of methane (from farms and agricultural facilities).
- In other volatile organic compounds produced by human activity (cars, kitchens, heating systems).



Paraformaldehyde - (CH2O)n

Characteristics

 With richnesses between 89% and 98%, it allows the use of formaldehyde in a solid state.



Applications

Urea and phenolic resins, melamine, resins for coatings, paints, manufacturing of inks, polyurethanes, additives for the petrochemical industry and herbicides.

Resins



Applications

Manufacture of chipboard and plywood, impregnation of decorative paper for laminates, fiberglass and manufacture of moulding compounds.

R+D

• The R&D department of the intermediate chemicals division is in the Tortosa factory.



- Very low emission level, similar to that of natural wood.
- Designed to comply with the strictest standards of the construction sector in the EU, USA and Japan.
- More than 20 varieties of resins (urea, melamine, phenolic).
- Variety of applications in boards (chipboard, MDF and plywood), laminates and fiber impregnation.





- Technical polymers with various applications.
- Maximum flexibility for decorative wood laminates (extreme bending radii).
- Applications in coatings of:
 - Food cans
 - Metal coils
 - Steel plates
 - Synthetic fibers

Acreditaciones ASG

- Prevention management system according to ISO 45001.
- Quality management system according to ISO 9001.
- Energy management system according to ISO 50001.
- Environmental management system according to ISO 14001.
- Verification of greenhouse gas (GHG) emissions according to ISO 14064.



Programs and ratings

- Responsible Care: Program of good practices in sustainability of the global chemical sector.
- Global Compact: Program promoted by the UN that contains 10 principles of action.
- Carbon Disclosure Project (CDP): Organization designed to assess the behaviour of affiliated companies regarding the climate emergency.
- Green Hydrogen Platform Southern Catalonia: Interest group led by the Rovira i Virgili University, whose purpose is the implementation of green hydrogen.
- Climate action of the Generalitat de Catalunya: Commitment to achieve neutrality of CO² emissions by 2050.
- **EcoVadis:** International sustainability rating (score 84/100 in 2022).







Compliance with the sustainable development goals (SDGs)

In the development of its activity, Ercros contributes to the fulfillment of the 17 SDGs established in the UN 2030 Agenda, although it has a special impact on:

- **SDG 3:** Good health and well being.
- **SDG 6:** Clean water and sanitation.
- **SDG 7:** Affordable and clean energy.
- **SDG 8:** Decent work and economic growth.
- **SDG 9:** Industry, innovation and infrastructures.
- **SDG 12:** Responsible consumption and production.
- **SDG 13:** Climate action.



Associations













Thank you very much

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