



Ercros



Monzón factory

Key data. Year 2023

1989
Foundation

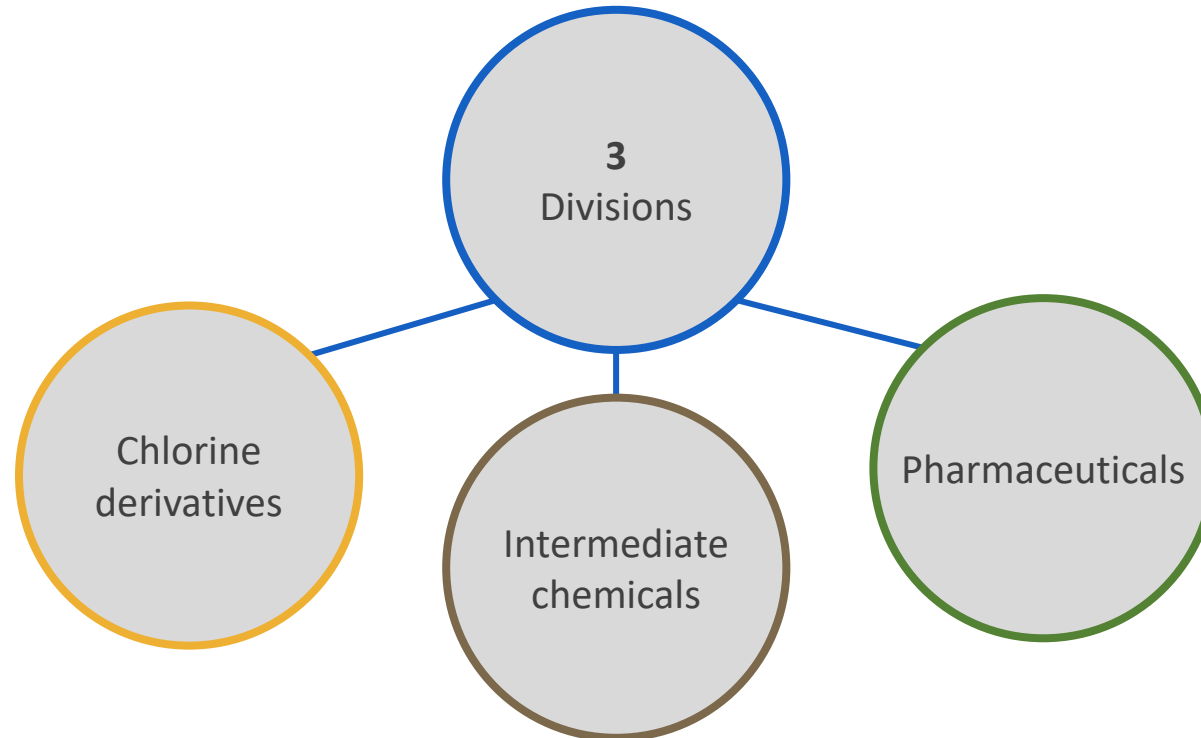
1,334
Workforce

10
Factories

707 M€
Sales

52 %
Export (>90
countries)

48 M€
Adjusted
ebitda



Factories



Chlorine derivatives

Intermediate chemicals

Pharmaceuticals

Key data from the Monzón factory. Year 2023

- The Monzón factory is dedicated to the research, marketing and production of technologically advanced polymers (PVC compounds) and environmentally (bioplastics).

1952
Foundation year

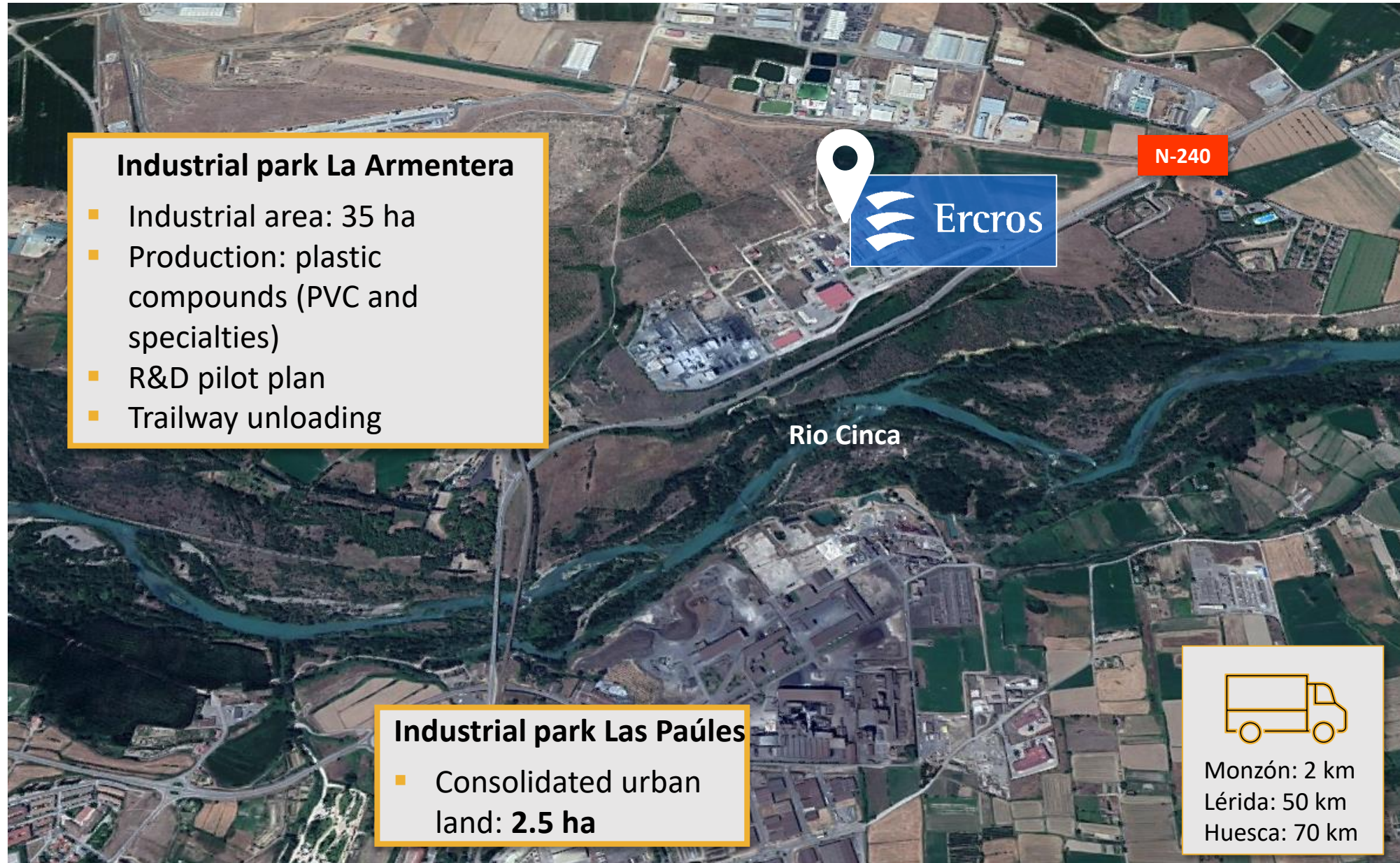
31
Workforce

32,800 t/year
Production capacity

20 M€
sales

6%
Export

Industrial parks La Armentera and Las Paúles



Industrial park La Armentera

- Industrial area: 35 ha
- Production: plastic compounds (PVC and specialties)
- R&D pilot plan
- Trailway unloading

Industrial park Las Paúles

- Consolidated urban land: **2.5 ha**

N-240

Ercros

Rio Cinca



Monzón: 2 km
Lérida: 50 km
Huesca: 70 km

A little history

1952

Beginning of the activity in Las Paúles

1955

Start of PVC production

1960

Start of activity in La Armentera

1981

New PVC composites plant

2003

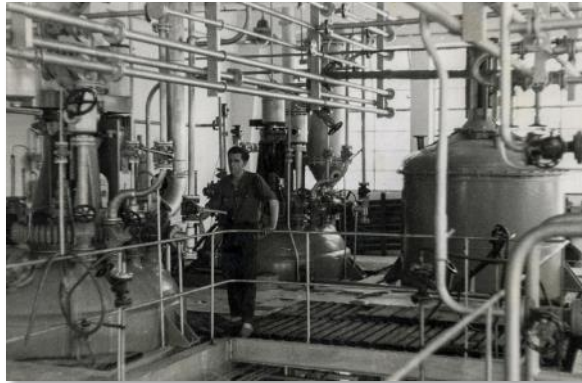
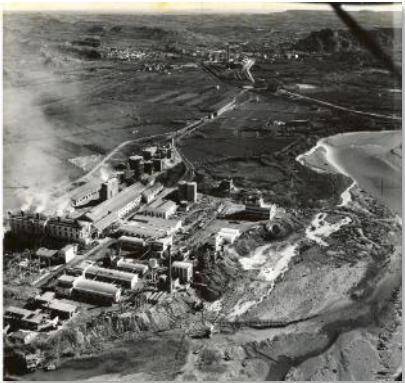
New pilot plant

2020

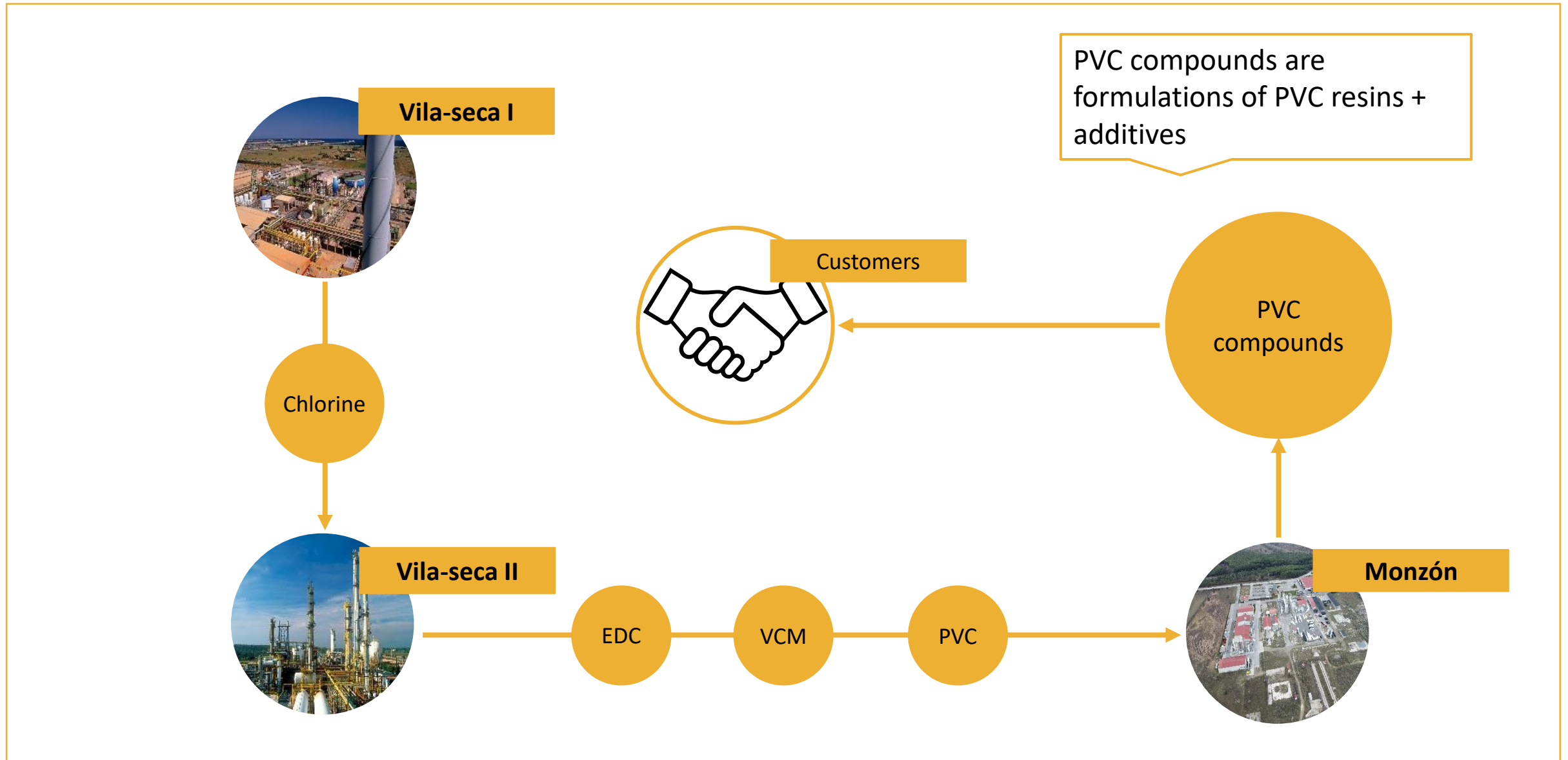
New PVC compounds extrusion line

2022




New bioplastics extrusion line






Integration of the Monzón factory in Ercros



Types of PVC compounds (1/2)

Extrusion-blow moulding	<p>Applications</p> <ul style="list-style-type: none">■ Medical drains■ Boats■ Candles	
Film extrusion		<p>Applications</p> <ul style="list-style-type: none">■ Flexible film■ Rigid film (blister)
Rigid extrusion	<p>Applications</p> <ul style="list-style-type: none">■ Windows■ Panels■ Blinds■ Tubes	

Types of PVC compounds(2/2)

Rigid injection		Applications <ul style="list-style-type: none">■ Pipe parts■ Electrical boxes■ Tacos■ Bases and supports
Plasticized injection	Applications <ul style="list-style-type: none">■ Plugs■ Road cones■ Footwear■ Oxygen masks■ Food	
Plasticized extrusion		Applications <ul style="list-style-type: none">■ Profiles■ Cables■ Hoses■ Construction tubes■ Medical tubes

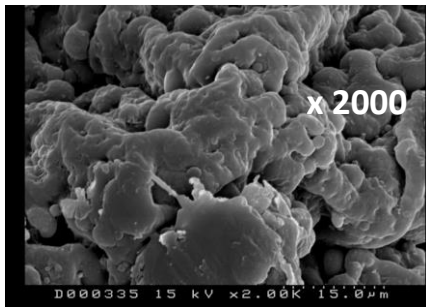
R+D: PVC resins and PVC compounds

PVC resins

- Optimization of current polymerization processes.
- Development of new resins.
- Analysis and characterization of resins on the market.
- Homologation of raw materials.
- New polymerization processes.

PVC compounds

- Optimization of current formulations.
- Valuation of raw materials.
- Adjustment of formulations.
- Analysis and characterization of market compounds.
- Development of new compounds.



- ErcrosBio, the truly "bio" bioplastic, for its origin and for its end.

ErcrosBio L

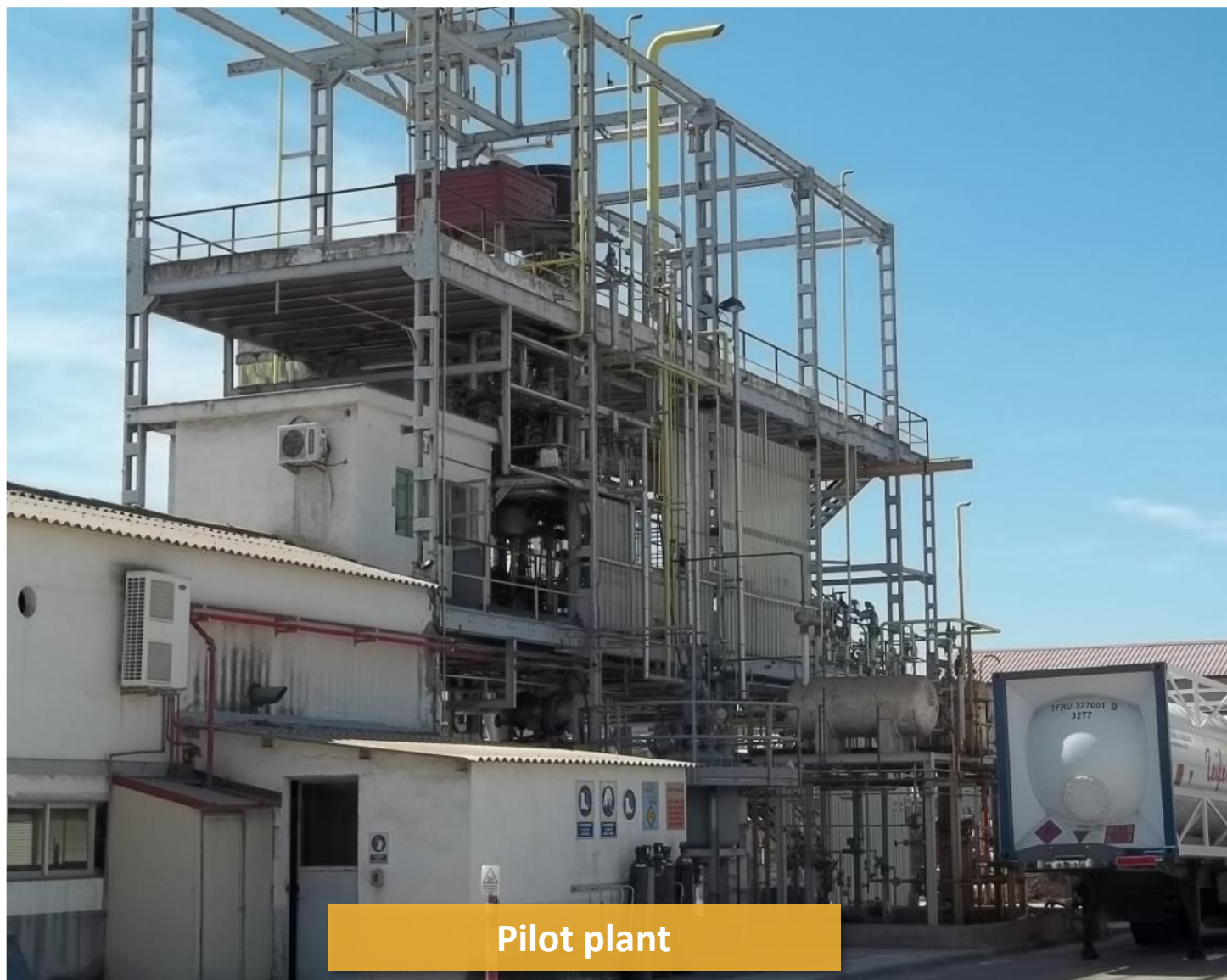
- Suitable for 3D printing.
- Of natural origin.
- Compostable industrial.
- Recyclable.
- Very low CO2 footprint.
- Suitable for packaging production.
- Withstands high temperatures.

ErcrosBio PH

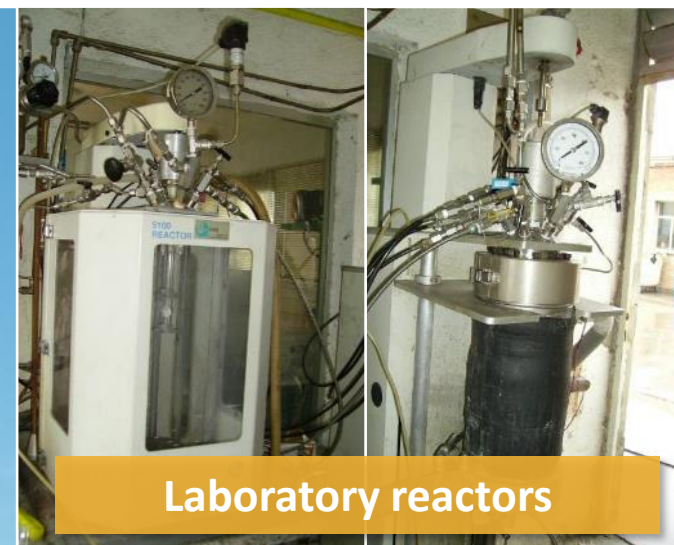
- Biodegradable in water.
- Of natural origin.
- Domestic compostable.
- Recyclable.
- Very low CO₂ footprint.
- Very versatile.



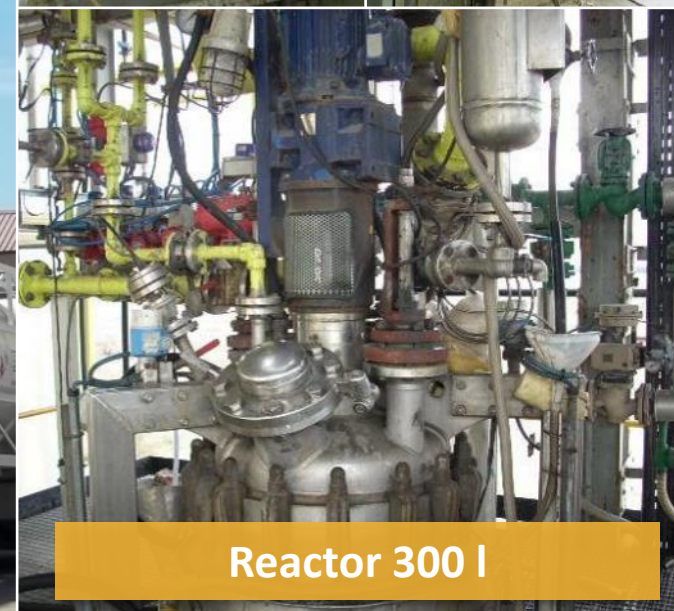
R+D equipment



Pilot plant



Laboratory reactors



Reactor 300 l

Laboratory equipment

- **Universal testing machine:** tensile properties.
- **ATR-FTIR:** infrared spectroscopy.
- **Spectrophotometer:** color parameters L^* , a^* , b^* .
- **Götffer rheometer:** rheological properties
- **Werner-Matthis stove:** static thermal stability.
- **Stoves:** aging and compostability tests.
- **Izod:** impact properties.
- **DSC:** differential scanning calorimetry.
- **Vicat:** softening temperature.
- **Xenotest:** aging sunlight
- **Aurburg injector:** sample injection
- **Labtech extruder:** obtaining PVC pellets, bioplastics, etc. Lateral feeding of liquids and solids.
- **Flag extruder:** obtaining profile from pellets.
- **Brabender extruder:** obtaining processing parameters.
- **Brabender:** dynamic thermal stability, melting tests, plasticizer absorption.
- **MFI:** flow meter.



ESG accreditations

- Prevention management system according to **ISO 45001**.
- Quality management system according to **ISO 9001**.
- Environmental management system according to **ISO 14001**.
- Verification of greenhouse gas (GHG) emissions according to **ISO 14064**.
- Registration in the European Eco-Management and Eco-Audit Register, **EMAS**.
- Seal of Social Responsibility of Aragon, **RSA**.
- Verification of compliance with the Good Corporate Governance Index, **IBGC**.
- Healthy Organization Management System, **Sigos**.
- Operation Clean Sweep Certified, **OCS**.
- VinylPlus® supplier certificate, **VSC**.
- Spanish and sustainable plastics industry from Anaip, **IPES**.



Programs & ratings

- **Responsible Care:** A program of good practices in sustainability in the global chemical sector.
- **Global Compact:** A program promoted by the UN that contains 10 principles of action.
- **EcoVadis:** International sustainability ranking (score of 85/100 in 2023).
- **Vinyl Plus:** Commitment by the European PVC industry to develop greener ways to produce, use and recycle this product.
- **ECVM Charter:** Sustainable practices program for European PVC manufacturers.
- **Operation Clean Sweep:** EU program to prevent the loss of microplastics in the sea.



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.



Partnerships and collaborations



Thank you

For more information

Ercros, S.A.

Monzón Factory

National Highway 240, Km 147

22400 Monzón (Huesca)

Phone: (+34) 974 400 850

E-mail: monzon@ercros.es

www.ercros.es