

FAREVA

Spray Drying

FAREVA Valdepharm

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API

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# Spray Drying

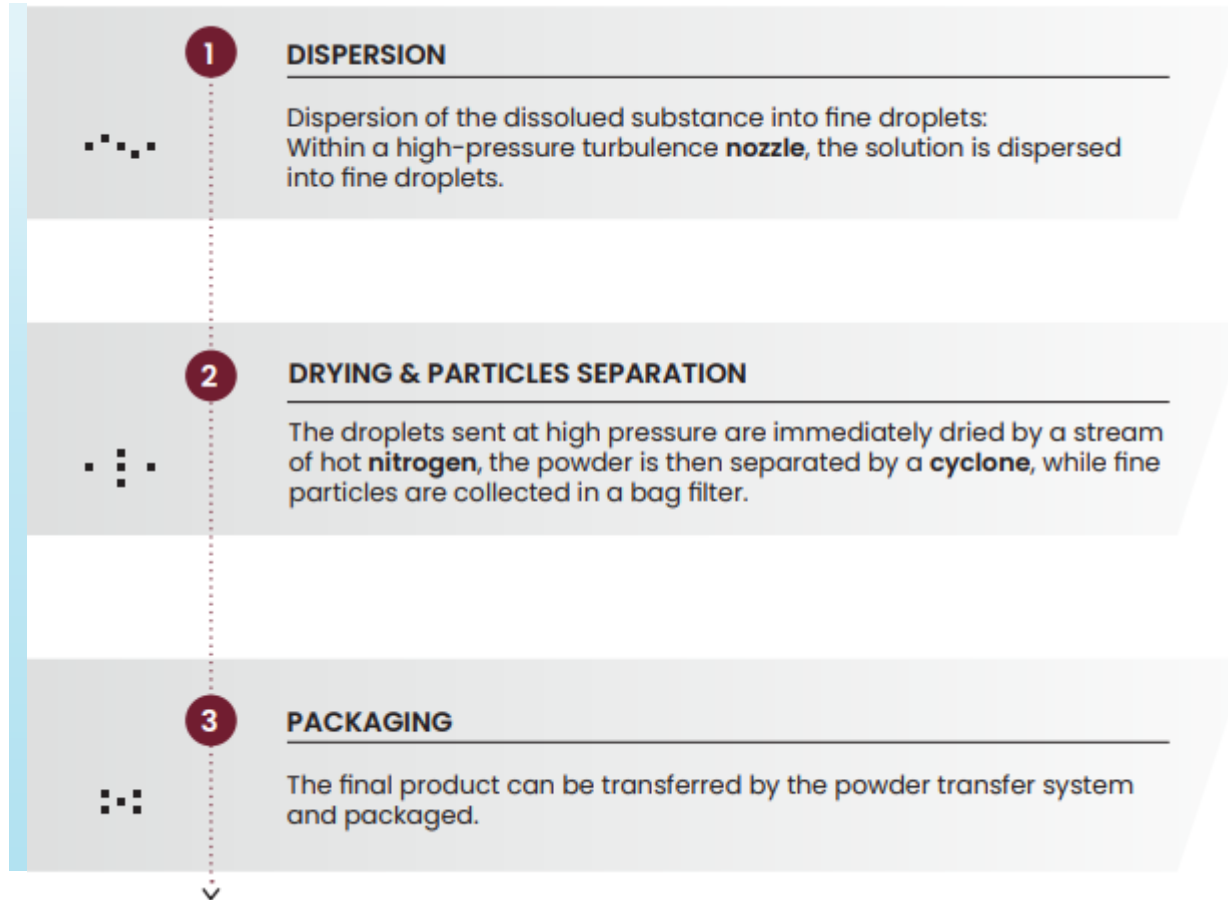
at FAREVA **VALDEPHARM**



- FULLY AUTOMATED
- HASTELLOY FOR HIGHLY CORROSIVE PRODUCTS
- HPAPI UP TO OEB 4
- KILO-LAB FOR PROCESS DEVELOPMENT



# The spray drying process



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# Technical details

## • Maximum evaporation capacity (solvent basis)

- 14 kg/h of Water.
- 20 kg/h of organic solvent like methanol

## • Particles size

- Average distribution 10 – 80  $\mu\text{m}$ .
- Equipment can be adapted with monofluid (up to 180 bars) or bifluid nozzle (up to 7 bars).

## • Feeding with chemical reactor

- Enamel, thermal control and agitated reactors with a capacity from 300 L to 4 000 L.

## • Without secondary drying

- Possibility to package directly after spray drying under controlled environment (class D).
- Batch size: between 25 kg and 700 kg of dry product.

## • With secondary drying (if needed)

- Agitation filter dryer for secondary drying: 1.5 m<sup>2</sup>
- Drying under hot nitrogen and vacuum. Batch size: between 50 kg and 500 kg of dry product. Packaging with continuous liner under nitrogen.
- Automated sampling during packaging.





# API SITES

## FAREVA VALDEPHARM

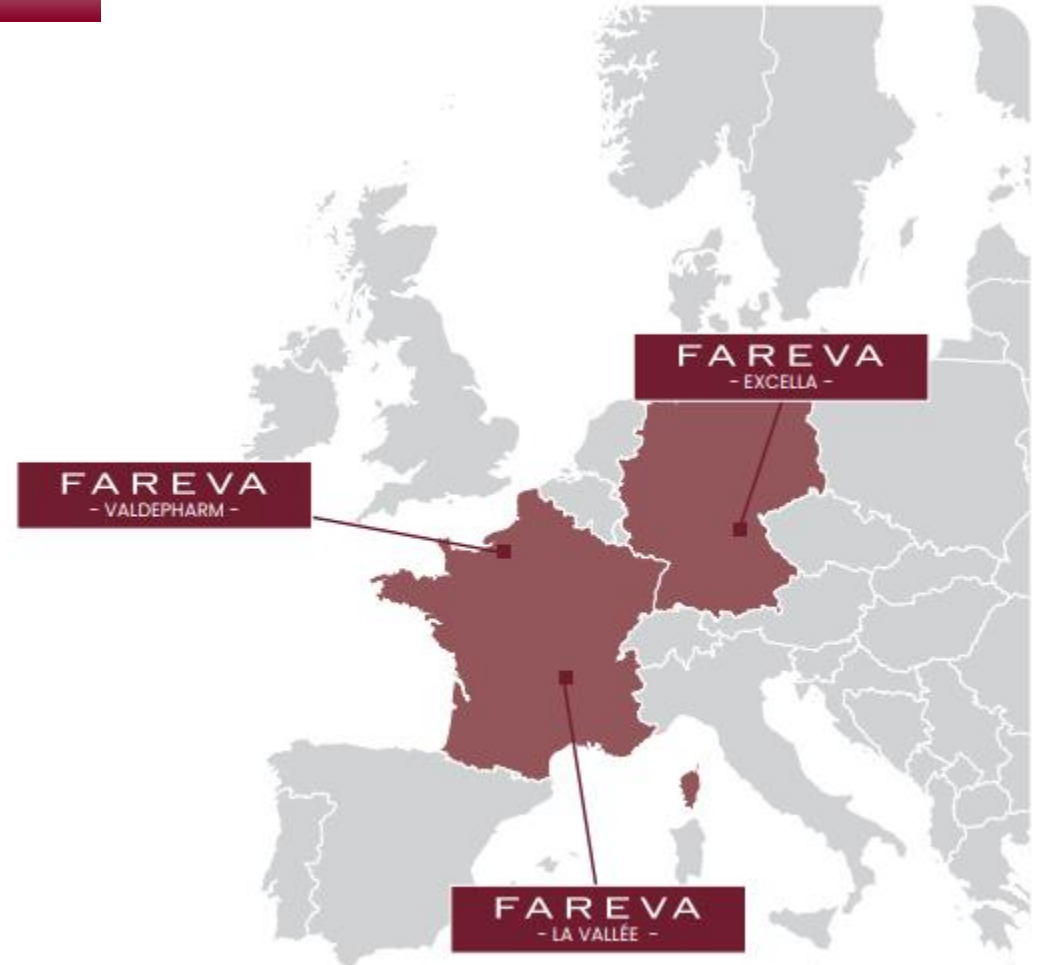
📍 Val-de-Reuil, France

## FAREVA EXCELLA

📍 Feucht, Germany

## FAREVA LA VALLÉE

📍 Saint-Germain-Laprade, France



FAREVA

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