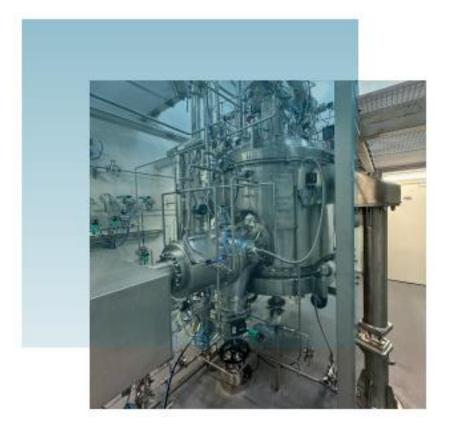
# FAREVA

Spray Drying

FAREVA Valdepharm



## Spray Drying at FAREVA VALDEPHARM



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

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API

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## The spray drying process

#### DISPERSION

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Dispersion of the dissolued substance into fine droplets: Within a high-pressure turbulence **nozzle**, the solution is dispersed into fine droplets.

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#### **DRYING & PARTICLES SEPARATION**

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The droplets sent at high pressure are immediately dried by a stream of hot **nitrogen**, the powder is then separated by a **cyclone**, while fine particles are collected in a bag filter.

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#### **PACKAGING**

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The final product can be transferred by the powder transfer system and packaged.

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## **Technical details**

- Maximum evaporation capacity (solvent basis)
- 14 kg/h of Water.
- 20 kg/h of organic solvent like methanol
- 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.

- Particles size
- Average distribution 10 – 80 µm.
- 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.
- With secondary drying (if needed)
- Agitation filter dryer for secondary drying: 1.5 m<sup>2</sup>
- Drying under hot nitrogen and vaccum.
   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

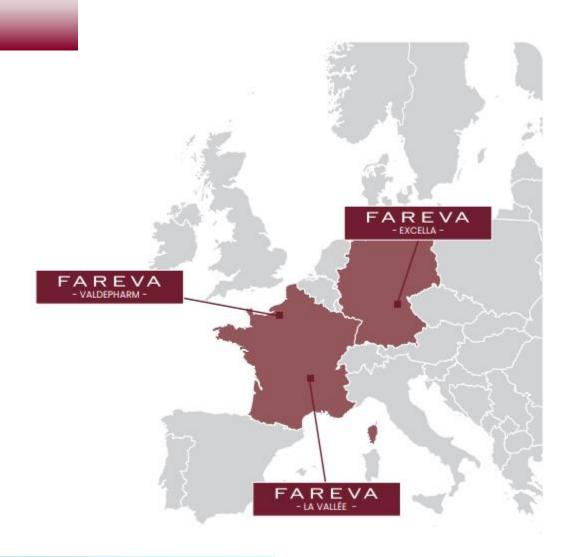
♥ Val-de-Reuil, France

### **FAREVA EXCELLA**

♦ Feucht, Germany

## FAREVA LA VALLÉE

Saint-Germain-Laprade, France



# FAREVA

YOUR DREAMS, OUR PASSION

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