

# Solids Processing

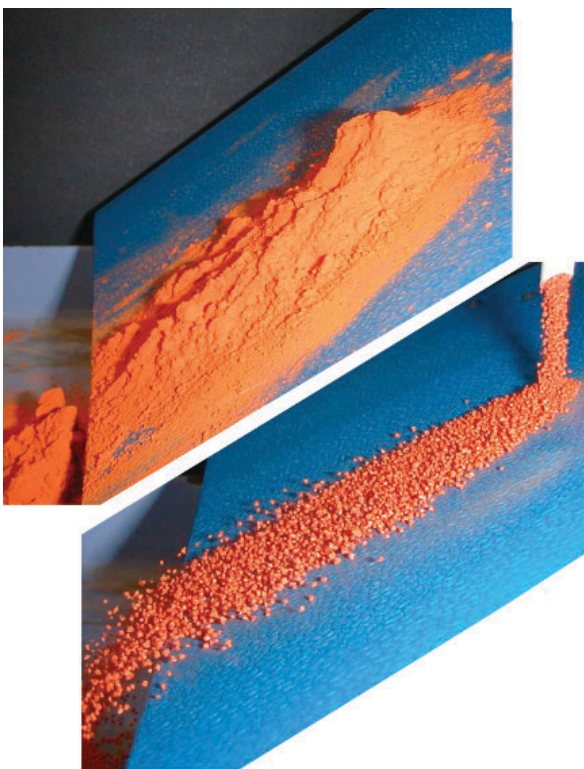
## Fluidized Bed Spray Granulation

### Our service ...

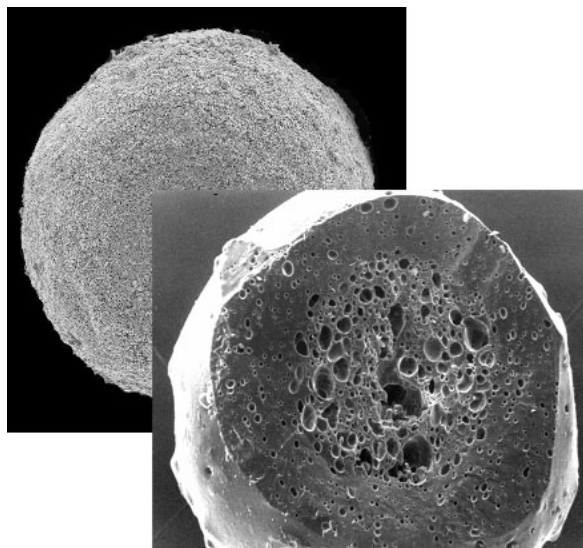
As a product designing drying process, fluidized bed spray granulation, is ideally suited for the production of granules with tailored property profile.

We provide a full range of services for every phase of your project, from development of an optimal formulation through commissioning and support of the process we developed. We are your single source for:

- development of formulations;
- development of a process suited to the property profile of your product;
- production of samples;
- scale-up to commercial production scale;
- commissioning support.



*Flowability of conventionally spray-dried powder compared with a spray-granulated product*



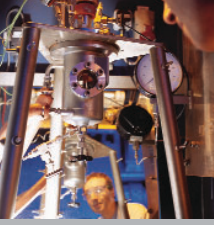
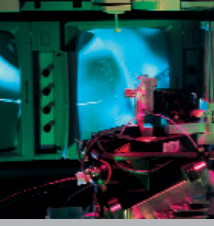
*Surface and cross-section of granules with encapsulated flavoring agents*

### ... is your gain.

Your product is not only dried but will be imparted with a tailored property profile:

- mono-disperse, dust-free, free flowing granules with defined density;
- advanced product properties including defined release pattern, coating and surface treatment;
- encapsulation of solid and liquid compounds, e.g. alcohols, flavorings;
- reliability of your products quality and the product formulation.





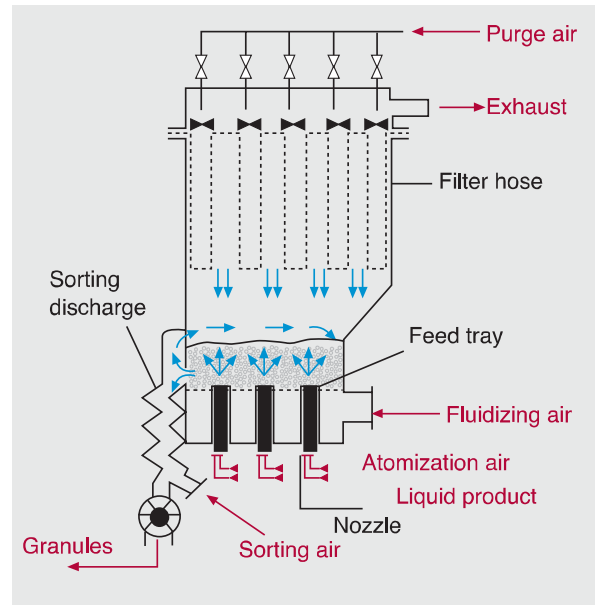
## Our approach

With our flexible laboratory and pilot plant equipment we support you over the entire life cycle of your product:

- product characterization;
- process-automated units on the laboratory and pilot plant scale;
- continuous granulation and agglomeration equipment handling solids throughputs of 1-5 kg/h and 15-60 kg/h;
- batch granulation, agglomeration and coating equipment handling batches of 50-200 g, 300-2,000 g, 10-25 kg batches of solids;
- processing of solutions, suspensions, emulsions, and melts (< 140 °C);
- explosive and toxic substance systems can also be handled.



Fluidized bed granulator at the BTS pilot plant stations



Scheme of a fluidized bed spray granulation system

## References

- Life science granulation of a pharmaceutical compound granulator for crop protection formulations
- Food & nutrition encapsulation of flavoring agents
- Fine chemicals granulation of a catalyst
- Bulk chemicals citric acid

## Contact

Phone: +49-214-30-80900 • Fax: +49-214-30-9662530 • E-mail: [info@bayertechnology.com](mailto:info@bayertechnology.com)  
[www.bayertechnology.com](http://www.bayertechnology.com)