

PROCESS & PLANT ENGINEERING + INNOVATIVE PROCESS TECHNOLOGY

FUNCTIONALIZATION OF ENZYMES AND FLAVORS



PRODUCT COMPETENCE



More performance for your enzymes and flavors.

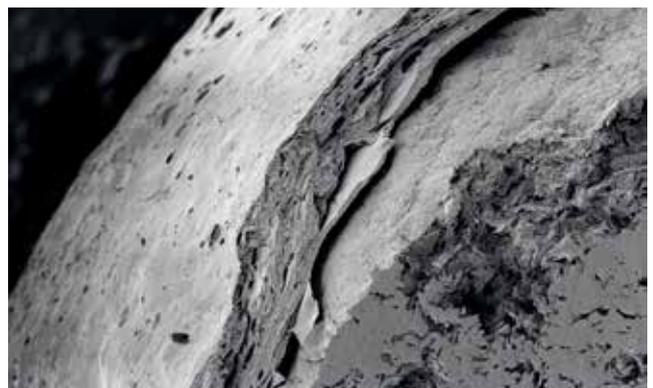
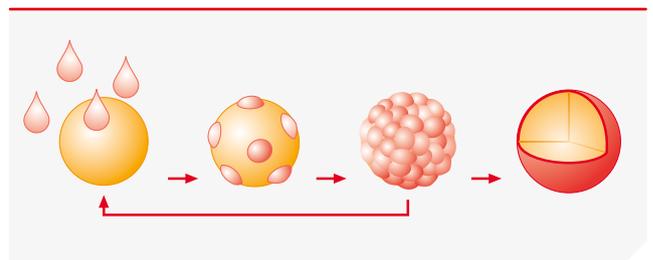
Whether it be in foodstuffs for animals or humans or in the chemical industry – as catalysts, enzymes are important triggers and accelerators of (bio)chemical processes. Would you like to improve the properties and the mode of action of your products to achieve specific targets? With Glatt Coating technologies, your enzymes and flavors receive a protective covering that protects and also functionalizes them after their manufacture. Spray granulation or encapsulation processes can be done upstream.

Uniform casing with defined layer.

Film or hotmelt coating provide every single particle with a defined protective coating. This coating - whether it be for the targeted release of active substances, for taste or odor masking, better appearance or for protection during transport, storage and dosing - enables optimum protection of the active substances. The coating material can be present as a solution, a suspension or a melt.

Products with Glatt particle design:

- » Detergent enzymes
- » Feed enzymes
- » Perfumes and flavors

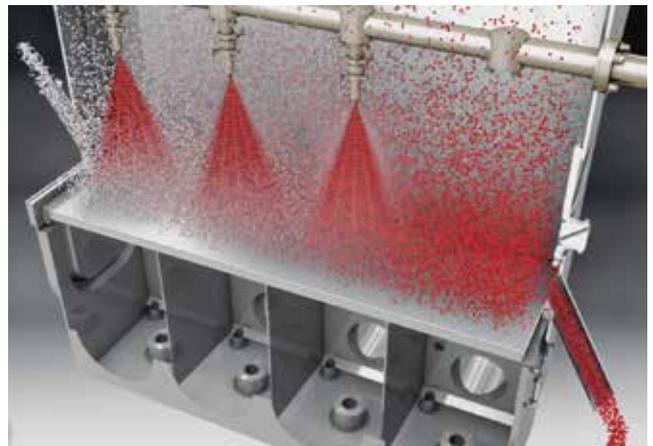


PROCESS COMPETENCE



Effective and continuous - with guarantee.

Glatt coating processes with innovative fluid bed or spouted bed technology is optimally suitable for the functionalization of your enzyme or flavor granules. The casing of the particle with coating material and the subsequent drying can be carried out in a single process step. What is important here are particularly small drops for ensuring uniform distribution. Glatt technologies offer optimum spraying systems for this purpose. For the operating efficiency of your plant and reproducible product quality Glatt guarantees process parameters such as capacity, grain size, solubility and functionality.



Continuous fluid bed coater.

Glatt fluid bed coaters are divided into several process chambers. Here even small particles can be coated without agglomeration. In addition to top spray or Wurster coating in the fluid bed, Glatt offers the unique spouted bed coating in the ProCell spouted bed coater.

Product advantages with Glatt spray coating:

- » Uniform, optically attractive surface structure
- » Masking without undesired odor or taste
- » Improved solubility, dosing, hygroscopicity



TECHNOLOGY COMPETENCE



Functional enzymes and flavors with innovation.

Glatt has the entire technical know-how required for the production and handling of your product. We provide you with a finished concept that takes into account not only requirements for protection against explosions but also minimization of emissions into air and water. In addition, our experienced project management coordinates assembly, commissioning and also training of your operating personnel.

Reference system: salt coating on feed components.

Glatt performances: tailored design and layout, project management of the entire process chain, from the delivery of raw materials to the storage of the end product, delivery of process technology and peripheral systems, start-up and training of the operations personnel. A special feature is the very large capacity of the coater. With an additional closed loop, the system offers an operation that is both energy efficient and environmentally sound. A sophisticated recirculation concept enables an extremely short amortization period.

Information regarding the reference system:

- » Capacity \geq 5300 kg/h
- » With process guarantee



PLANT ENGINEERING COMPETENCE



Process and plant engineering.

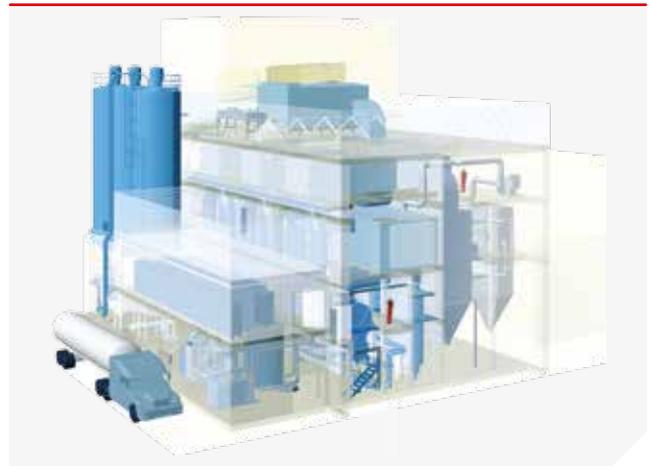
Glatt is your engineering and technology partner with more than 60 years of process expertise. We accompany you from the initial idea through the consulting for process and general planning, all the way to start-up of turn-key production facilities. Whether it be new construction, modernization, expansion or relocation of production site – tailored to your specific tasks, we develop the tailored solution that is optimum for you.

Technologies in focus.

At the center of attention are your products and their manufacturing. We integrate your technologies or pioneering Glatt technologies. Depending on the requirement, we supplement the process know-how through the procurement of licenses of international partners.

Range of engineering services:

- » Consulting and feasibility studies
- » Conception, basic and detailed engineering
- » Project management for planning and execution
- » Authority engineering and financing concepts
- » Planning and supervision for construction, assembly, start-up
- » EPCM projects
- » Support with FAT and SAT





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