

Turbulizer for Continuous Coating of Particles

Whether coating base powder particles for taste masking, improvement of flow characteristics, protection of core particles, controlled release effect or controlled dissolving time, the Hosokawa Turbulizer horizontal paddle mixer with its fully adjustable paddles is flexible in operation to suit most process requirements. The fine coating of a chemical or a mineral with a 0.5 to 3% melt, where the primary particle size is in the range of a few microns, for example, is typically achieved using a powder melt. The base product as well as the powder melt are gravimetrically fed at room temperature to the product inlet. The powders are blended into a homogeneous mixture within the Hosokawa Turbulizer. The jacketed vessel heats the powdery melt up to slightly above its melting temperature — jacket temperatures up to 320°C are achieved with hot oil for this application, although steam at 16 bar(g) can also be used. Product residence time within the Hosokawa Turbulizer is a mere 5 seconds (approx.) during which the base product is coated with the melt. Product discharge temperatures are typically 65°C for this type of application.

Spotlight

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