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PROCESS AND PRODUCT TECHNOLOGY

喷洒造粒过程的分析和革新

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摘要 Cooling-solidification of sprayed droplets is one of major methods for prilling of melt. Traditionally, this is carried out in an empty tower, and the equipment requirement for producing larger particles is very high, resulting in not only significant cost increasing but also difficulties in transporting melt etc. Based on analysis and simulation, a new prilling process is developed for the melt prilling, which combines a tower with a fluidized bed so that the height of equipment is greatly decreased, and it exhibits satisfactory performance in industrial application. Mathematical model for tower prilling, its simulated results, the structure of the equipment for the innovated prill-ing process and its application are addressed.

关键词 prilling melt spray tower fluidized bed

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An innovated tower-fluidized bed prilling process

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Key words prilling; melt; spray tower; fluidized bed

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