

Advances in Wet Milling and Controlled Spraying in Granulation Operations

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High shear wet granulation is a cornerstone of the formulator's and process engineer's pharmaceutical manufacturing toolbox. It is used to increase the density and particle size of a composition to improve powder flow and compressibility on the tablet press when dry processing methods are insufficient to produce tablets or capsules with acceptable uniformity, hardness, and friability.

Although the general principles of granulation technology have remained unchanged for several decades, the emergence of several process modifications seem to be gaining popularity among the pharmaceutical industry. Two of those modifications are wet milling operation and spraying in a controlled manner using a spray nozzle over an extended period of time.

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