WET GRANULATION CASE STUDY

THE CHALLENGES

Why Wet Granulation? To enhance flow properties of powder blends in pharma oral solid dosage and decrease dust problems in handling powder blends during tableting.

To ensure that adding a ‘wet milling/conditioning’ step post high shear granulator did not adversely affect PSDs, tablet compactability, porosity, dissolution and active drug distribution.

THE SOLUTION

Adding a Comil® at the exit of a high shear granulator (wet granule conditioning) shortened drying times by 25%, reduced fines generated post fluid bed drier milling (by 20-25%), enhanced powder flow, and reduced risk of size-based segregation. Wet conditioning did not negatively impact granule porosity, drug assay distribution or compactability of final tablet dosage.

Sources:

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