# POWDER FLOW PHYSICAL PROPERTIES



Do you need help to understand the flow properties of your..
Active Pharmaceutical Ingredient (API)? Excipient? Formulation?
Want to know how to apply this information to help you formulate better?

We can measure the flow properties of your API or powder blend by:

- Using small amounts of granules to assess the flow characteristics of your material.
- Assessing how the flow of your powder could change during scale up as size of containers and hoppers change.
- We can also measure bulk and tapped density for Carr's Index.

#### How do we do it?

We measure powder flow by using the Schulze RST XS ring shear tester:

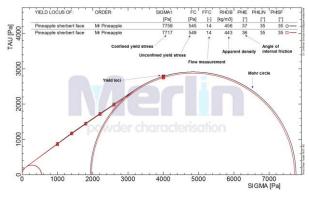
- It is a reliable and is a non-destructive test where the materials can be reused.
- as testing can be indicative of scale up issues and linked to tablet performance.

#### Our laboratory –flow measurement

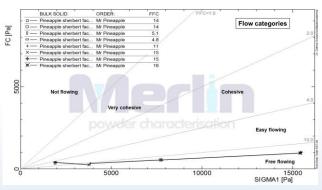
### Determination of FFC



A choice of the loading forces can be applied to mimic the powder in different sized containers i.e . Large normal load for large hopper



# **Flow function**



Minimum Sample size: 4 g Powders (9 cm<sup>3</sup> cell), 10 g granules (30 cm<sup>3</sup> cell)



The shear cell data is useful for understanding flow properties of materials at different stages of development.

# **Contact Us**

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