



## EXCIPIENT FUNCTIONALITY

The choice of an excipient is often governed by a number of factors including cost, supply chain and user experience. Do you want to provide further scientific information about your excipient to your customers to help influence their choice? Want to know how the functional properties of your excipients compare to other products? Look no further, read on to find out how the scientists at Merlin Powder Characterisation can help .....

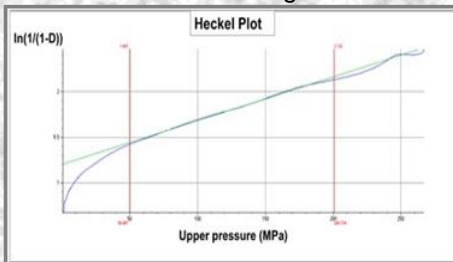
We can produce key functional information of your excipient by :-

- Using as little as 20 g of excipient to assess the key functional properties: compressibility, compactability, tableability and true density.
- Categorising the excipient according to its deformation characteristics.
- Assessing the excipient powder flow.
- Characterising your new excipients during development in the R&D stage.
- Comparing your excipient against existing products.
- Assess functional performance of model formulations.

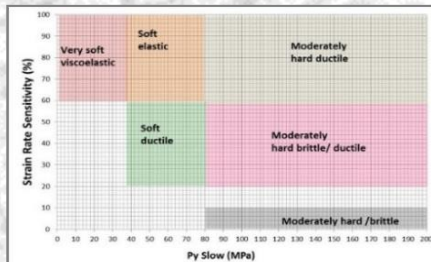
### How do we do it?

We assess functional characteristics that would make your material a good excipient of choice and provide useful information for your excipient users by :-

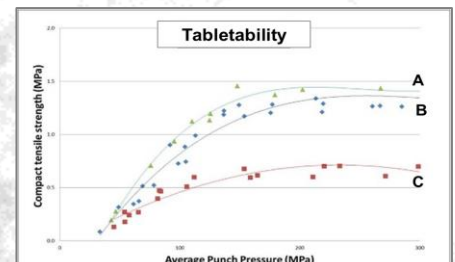
- Understanding compaction properties - Heckel analysis, yield pressure and strain rate sensitivity (SRS) data.
- Understanding the strength of the excipient over a range of forces.
- Investigating variables affecting the excipients performance.
- True density of excipient measured using Helium Pycnometry.
- Assessing powder flow using Ring Shear Tester.
- Measuring model formulations.



Heckel Analysis – calculates the average yield pressure of the excipient.



Strain Rate Sensitivity (SRS) – gives an indication of deformation characteristics of the excipient. Categorising the excipient according to yield pressure and SRS.



Tabletability data provides “finger-prints” for each batch of excipient tested. It shows the impact of process variables which may affect the excipients performance.

If you would like to provide further scientific information on your excipient, please e-mail: [info@merlin-pc.com](mailto:info@merlin-pc.com)