

Equipment Name: Micromeritics Tristar 3000

Category:
C. Particle Characterisation in and ex-situ and/or

Institute: University of Leeds

Location: ParticlesCIC, Engineering Building, Leeds. LS2 9JT. UK

Contact Details of Technology Expert:

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Short technology description/Overview (approx 300 words):

Uses gas (typically nitrogen) adsorption/desorption to determine the specific surface area (SSA) and porosity of dry particulates. As there is a very strong correlation between particle surface area and nanotoxicology then the measurement of SSA is essential for all particle systems.

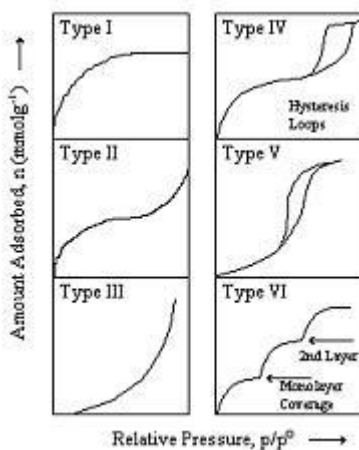
Main Features (Equipment Capabilities):

- 3 samples measured simultaneously
- Sample size - ~1gram minimum
- Samples prepared at room or elevated temperature under the presence of nitrogen

Typical Samples & Images:

Wide range of dry particulates can be measured. The maximum sample size is 6mm diameter.

Samples can be measured for BET surface area, BJH adsorption/ desorption isotherms, micro and meso pore size distribution and classified as below.



Any further Information: