

# Characterisation of Topical Formulations for Pharmaceutical R&D

## 27 February 2025

Anton Paar Ltd is delighted to invite you to join us for this pharmaceutical characterisation Workshop, held at our Luton office. This session is tailored for both industrial scientists and academic researchers, providing essential knowledge and hands on experience for analyzing all types of topical pharmaceutical materials.

Understanding the internal and external parameters that influence material behaviour is crucial in optimising the development of novel topical formulations.

In this workshop, we will focus on five key areas of pharmaceutical characterisation, including rheological behaviour, particle size and shape, density and structure. Anton Paar will guide you through each technique, covering both practical applications and recent advancement in technology and instrumentation.

Prepare to deepen your knowledge and enhance your skills in pharmaceutical characterisation!

### Key takeaways:

- ▶ Fundamentals of properties and key parameters influencing topical behaviour, such as rheological flow and recovery, particle size, shape and density
- ▶ Techniques to investigate material suitability, stability and effect on active components
- ▶ Hands-on sessions to analyse samples and interpret results
- ▶ Case studies and applications of material characterisation to optimise processes, enhance product quality, and drive innovation.

In this course, you will learn about characterisation possibilities for topical pharmaceutical materials and the benefits of using multiple analytical techniques.

### The methods presented include:

- ▶ Rheology
- ▶ X-ray diffraction and scattering
- ▶ Surface area & solid density analysis
- ▶ Particle sizing and imaging
- ▶ FTIR & Raman spectroscopy

Places will be limited to ensure a good ratio of delegates to tutors during the workshop. To reserve your place, please complete the following form and email to: [info.gb@anton-paar.com](mailto:info.gb@anton-paar.com).



### Workshop Programme 27 February 2025

|         |   |
|---------|---|
| 09:30 h | Welcome, registration & coffee on arrival   |
| 09:45 h | Session 1 – Implications for Drug Delivery:<br>Exploring solid density and surface area determination             |
| 10:15 h | Session 2 – Spectroscopy solutions and pharma compliance:<br>Enhancing formulation and quality control            |
| 10:45 h | Laboratory practical session  |
| 11:45 h | Short break   |
| 12:00 h | Session 3 – Stability matters:<br>Impact of particle size, shape and zeta potential                               |
| 12:30 h | Laboratory practical sessions   |
| 13:00 h | Lunch Break & Networking  |
| 13:30 h | Session 4 – Seeing the unseen:<br>Insights into structure using X-ray diffraction and scattering techniques       |
| 14:15 h | Laboratory practical sessions   |
| 15:15 h | Short break   |
| 15:30 h | Session 5: Topical Pharma:<br>Rheological methods for benchmarking, generics, stability and<br>formulation design |
| 16:30 h | Finish  |

## Meet the team



Dr Nishil Malde is our UK Product Manager for X-Ray, Surface Area & Porosity and Mechanical Surface Characterisation. Nishil has over 25 years of experience in technical instrument sales and application support, including 11 years at Anton Paar. With a PhD in Physics from Imperial College London, Nishil is a recognised expert in materials characterisation. His passion lies in guiding our customers to innovative solutions for their material analysis needs.



Joseph Hodges is the Product Manager for Rheology & Particle Characterisation for UK & Ireland. Joseph has a degree in Biomedical Sciences from the University of Southampton and has 7 years' experience assisting research & manufacturing institutions, adopting physical characterisation methods on rheometers and developing their material characterisation strategies throughout the UK, US, Europe and South East Asia. In his current role he is responsible for supporting application development and technical enquiries within the UK & Ireland.



Cormac is an accomplished Application Engineer with over two years of experience at Anton Paar. He has spent the majority of that time developing customer solutions using a range of techniques, including laser diffraction, DLS, rheology and gas adsorption. He has a solid academic foundation from Leicester University, in engineering and applied sciences, which helps him to apply these techniques to the problem of solving application challenges. Cormac is quickly developing a strong understanding of advanced analytical techniques and their applications in battery



Steve Singh – Product Manager for ASC  
Steve Singh has worked in the field of analytical and synthetic chemistry for over 30 years. He joined Anton Paar in 2004 as the Product Manager for the Chemical Analysis Technology division, now called Analytical and Synthetic Chemistry (ASC). Along with ASC, Steve is also responsible for FTIR and Raman spectroscopy.



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