

Formulation to Performance: Advanced Characterisation for Paints, Coatings & Inks

25th September 2025

Anton Paar UK, 950 Capability Green, Luton, LU1 3LU

Anton Paar Ltd invites you to our workshop: **Formulation to Performance - Advanced Characterisation for Paints, Coatings & Inks**. Designed for industrial scientists and academic researchers, this workshop provides practical insights into the behaviour of paints, coatings and inks, introducing advanced testing methods from raw materials to end-use durability.

Paints, coatings and pigments are critical in industries from automotive and aerospace to construction, packaging and consumer goods. Ensuring consistent quality, performance and compliance requires both deep material understanding and the right measurement tools.

This workshop will cover characterisation techniques across the full lifecycle - from formulation to application and finished product. Learn how particle size, rheology, viscosity, density, dispersion stability and more can drive smarter formulation, better process control and improved product performance.

Key Takeaways:

- End-to-End Understanding: See how measurement techniques apply from raw materials to final application.
- Essential Parameters: Master rheology, viscosity, particle size, zeta potential, density and dispersion stability.
- Quality & Consistency: Learn how advanced methods support optimisation, consistency and performance prediction.
- Hands-On Access: Experience Anton Paar's technologies in R&D and quality control.
- Real Applications: Case studies showing how data drives decisions in formulation and QC.
- Networking: Exchange ideas with specialists and peers.

Topics Covered:

- Powder Characterisation – particle size, density and flow behaviour.
- Dispersion & Stability – particle size and zeta potential for pigment performance.
- Rheological Characterisation – shear thinning, thixotropy and yield stress.
- Viscosity & Flow Behaviour – low- and high-shear viscosity across temperatures.
- Density & Solid Content – VOC compliance, cost control and accurate formulation.
- Chemical & Compositional Analysis – FTIR, Raman and microwave digestion.
- Application Testing – simulate real-world performance issues like sagging, adhesion and scratch resistance.

Meet the Team



Joseph Hodges

Joseph Hodges is the Product Manager for Rheology & Particle Characterisation for UK & Ireland. Joseph 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. Joey has a degree in Biomedical Sciences from the University of Southampton.



Dr Nishil Malde

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.



Steve Vincent

Steve Vincent is our UK Sales manager for Anton Paar measurement products including our range of viscometers. A chemist by training, he has worked for more than 30 years with market leading companies in the analytical instrument and software business. He has expertise in density measurement, refractometry, electrochemistry, molecular spectroscopy. He is also our in-house expert for the pharma industry and the data-integrity solutions we offer to address the regulatory requirements the industry faces.



Cormac Carry Fennessy

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 technology.

Timetable

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| 9.30 | Welcome, Registration & Coffee on arrival |
| 9.45 | Session 1: Powder characterisation for raw materials |
| 10.15 | Session 2: Dispersion and Suspension Stability |
| 10.45 | Practical in the Lab |
| 11.30 | Short Break |
| 11.45 | Session 3: Rheological Characterisation |
| 12.15 | Session 4: Viscosity and Flow Behaviour |
| 12.45 | Practical in the Lab |
| 13.15 | Lunch Break & Networking |
| 13.45 | Session 5: Density and Solid Content |
| 14.15 | Session 6: Chemical & Compositional Analysis |
| 14.45 | Short Break |
| 15.00 | Session 7: Application-Relevant Testing & Failure Analysis |
| 15.45 | Practical in the Lab |
| 16.30 | Finish |

Book Your Place



Spaces are limited to ensure an optimal delegate-to-tutor ratio for hands-on learning. To reserve your place, please scan the QR code below or click here to register. Alternatively, please email info.gb@anton-paar.com.



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