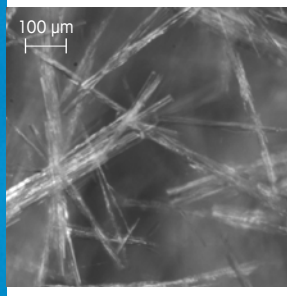
Particle Characterization

Comprehensive User Training

For In-Process Particle Measurement

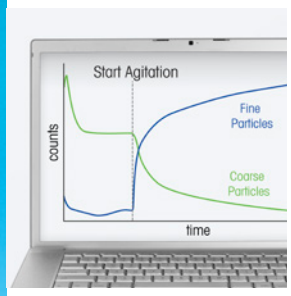


Particle Science Introduction

Learn how particle size, shape, and count can influence product quality, and how reliable measurement of key particle attributes enables the development of better processes. Methods for measuring and reporting particle size will be introduced, including number and volume distributions, as well as the differences between mean and median particle size.

Capture High-Quality Data

Simple strategies will be presented that will ensure scientists can consistently obtain the high quality data from their in process particle characterization instrument. Attention will be paid to choosing a suitable probe position, developing strategies to avoid probe fouling, and setting up instrumentsto obtain the most appropriate information.



Data Analysis Skills

By following simple steps scientists can quickly understand how particle systems behave, and how process parameters influence key mechanisms such as growth, breakage, agglomeration, or shape change. Data treatments to enhance sensitivity to regions of interest will be introduced, and vital tips to get the most from advanced software will be presented.

Report Generation

Multiple options for generating high-quality reports will be presented. From simple cut-and-paste tools to full report generation, the most appropriate report generation tool will be identified and reviewed. Software tools make reporting simple will be introduced, and integration with common presentation packages will be outlined.

In-Process Particle Measurement Ensuring Success

Training and familiarization with ParticleTrack™ and ParticleView™ instruments will ensure that users across an organization can walk up to this vital technology, and immediately bring value to their process development activities. A recognized in-process particle characterization expert will guide multiple users through classroom, as well as hands-on training, in order to prepare scientists to obtain, analyze, and report high-quality information that supports their research.

METTLER TOLEDO

Comprehensive User Training
For In-Process Particle Measurement

Available Courses Include:

Introduction to ParticleTrack: User Training

A combination of hands-on and classroom based training will prepare scientists to obtain high-quality data, analyze it efficiently, and report meaningful results that supports their research efforts.

Topics Include:

- Particle Science Basics
- FBRM® Method of Measurement
- Acquiring High-quality ParticleTrack Data
- Analyzing ParticleTrack Data
- Using iC FBRM™ Software
- Probe Care and Calibration
- Common ParticleTrack Questions

Introduction to ParticleView: User Training

A combination of hands-on and classroom based training will prepare scientists to obtain high-quality data, analyze it efficiently, and report meaningful results that supports their research efforts.

Topics Include:

- Particle Science Basics
- Real-time Microscopy Introduction
- Relative Backscatter (RBI) Method of Measurement
- Acquiring ParticleView Data
- Using iC PVM™ Software
- Probe Care and Calibration
- Common ParticleView Questions

Advanced Data Analysis Workshop ParticleTrack and ParticleView

An advanced data analysis workshop, utilizing unique datasets provided by each scientist, will prepare scientists to quickly and easily convert data to information for complex processes.

Topics Include:

- Correlating Data to Process Conditions
- Integrating Data from iControl™, iC IR™, iC FBRM and iC PVM
- Recognizing Common Particle Mechanisms
- Comparing Data Across Multiple Experiments
- Converting Data to Process Understanding
- Designing New Experiments Based on New Information

Application Training: Crystallization

A combination of hands-on and classroom based training will educate scientists on application specific topics including:

- Fundamentals of Crystallization
- Crystallization Design
- Role of Seeding in Crystallization
- Crystallization Scale-up
- Process Analytical Technology (PAT) and Crystallization

Your Scientific Partner

Our global Technology and Application Consultant (TAC) team transfers their academic and industry experience to scientists who utilize ParticleTrack and ParticleView. Comprehensive technology and applications training ensure scientists are prepared to obtain the highest possible return on investment from their instruments.

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