

# FILTER FEASIBILITY TESTING



## Rely on our Experience for Optimal Filtration Solutions

Take advantage of Mott Corporation's fully equipped filtration testing laboratory to determine the optimal process operating parameters and filter design for your unique application. Testing is available for applications involving both liquid/solids and gas/solids.

Though applications may appear similar, slight differences, including operating temperature, solids content, particle size and distribution of solids, can significantly impact downstream product quality.

Using our lab's highly advanced diagnostic equipment, our experienced engineers will provide you with a comprehensive, in-depth application analysis report and process operating parameter recommendations, including initial filter design recommendations.

We will return any remaining unfiltered feed, collected solids and liquid filtrate samples to you for further analysis and/or disposal.

## To Optimize Your Filtration Process, Mott Will:

- Replicate or closely correlate your process conditions in our lab center
- Test various Mott filter media options under your conditions
- Provide you with a comprehensive performance report of Mott filtration technology in your process
- Make recommendations on media selection and filter design to optimize your manufacturing process



*Filter testing designed to assess your unique conditions*

## Get the Data You Need

- Particle Size Distribution (PSD)
- Feeds Solids Concentration
- Catalyst Recovery/Removal Rates
- Feed Viscosity
- Filtrate Clarity - PPM or Turbidity (NTU)
- Solids Cake Characteristics
- Flux Rates
- Pressure Drop Analysis
- Backwash Characterization
- Backpulse Characterization

## Available Equipment

- Horiba Particle Size Distribution Analyzer
- Jeol Scanning Electron Microscope
- EDAX Energy-Dispersive X-Ray Microanalysis
- Hach® Turbidimeter
- Viscolite Viscometer
- Rigaku X-ray Fluorescence Analysis

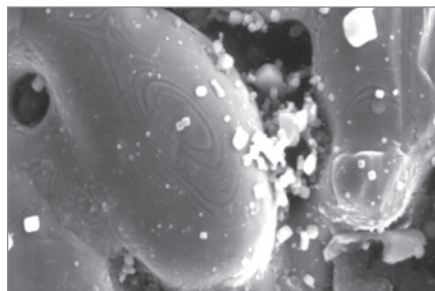
## How to Get Started

- Provide material safety data sheets for all chemicals
- Complete a Mott application data sheet
- Take responsibility for disposal of all samples

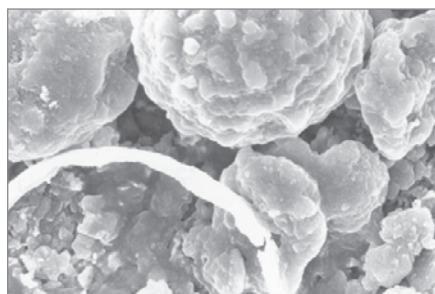
Ask a Mott representative for a sample report.



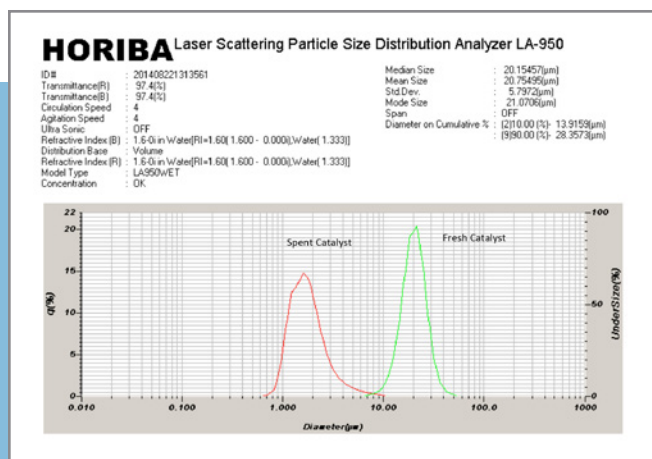
*Rigaku X-ray fluorescence analysis*



*Filtration of sub-micron particles  
(shown at 100x magnification)*



*Precision analysis ensures optimal  
filtration results*



*State-of-the-art diagnostic equipment enables precision filtration recommendations*

