

Mott Corporation offers one of the best-equipped filtration testing laboratories in the industry today. The combination of leading-edge equipment and highly experienced personnel allows for comprehensive, in-depth application analysis and reliable process operating parameter recommendations. Testing is available for both **liquid/solids** and **gas/solids** applications.

Testing is critical for confirming media selection and for preliminary filter sizing. Although applications appear similar, there can be subtle differences that will significantly influence the optimum process operating parameters. Variability in operating temperature, solids content and particle size, and

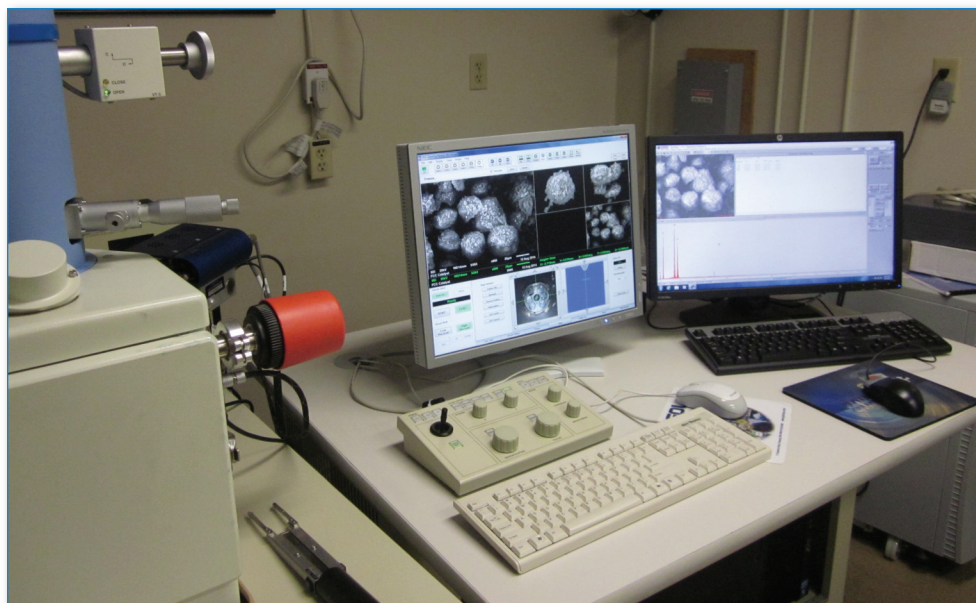
distribution of solids are just a few examples. Mott Corporation has a long-established program for feasibility testing on *pre-qualified liquid/solids* and *gas/solids separations applications*.

A comprehensive test report including initial filter design recommendations is furnished for customer review. Remaining unfiltered feed, collected solids and liquid filtrate samples are returned to the customer after the testing is completed for any further analysis and for disposal.

The Mott Laboratory: Unmatched In-house Equipment

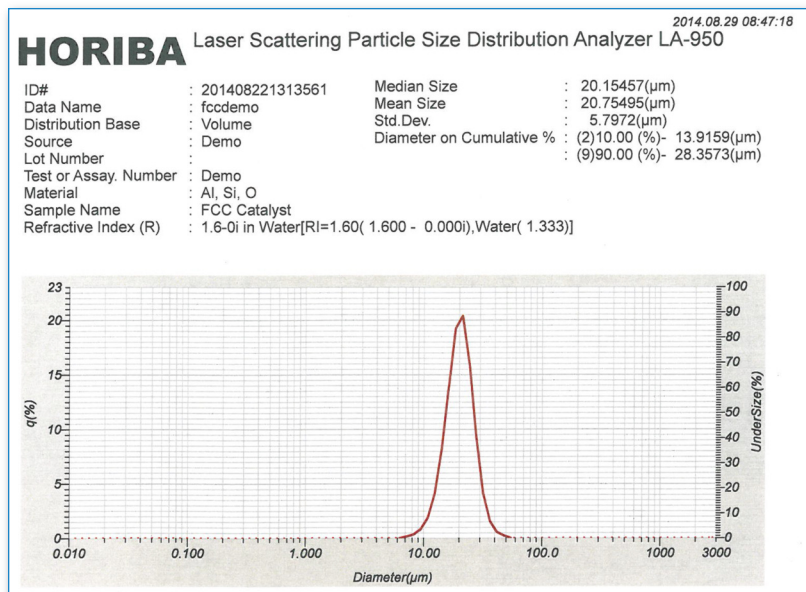
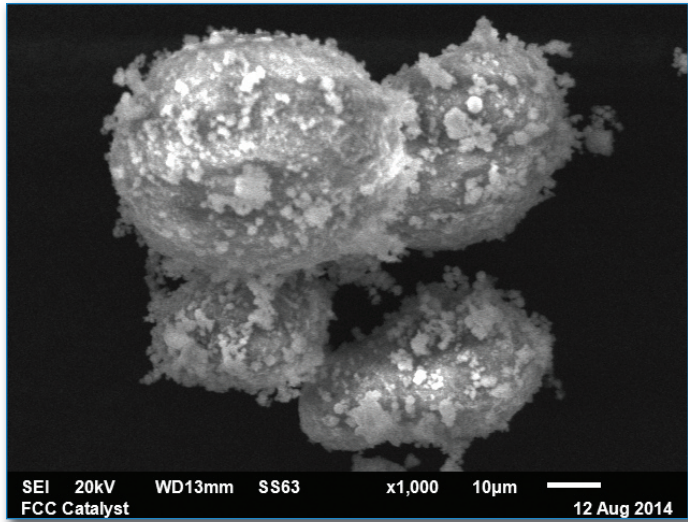
Among the vast array of testing and analytical equipment in the Mott laboratory, the following leading-edge equipment is regularly used when testing customer samples:

- Horiba LA-950V2 Laser Scattering Particle Size Distribution Analyzer
- Jeol JSM-6610 LV Scanning Electron Microscope
- EDAX Energy-Dispersive X-Ray Microanalysis
- Hach® 2100AN Turbidimeter
- Viscolite 700HP Model LV 700 Viscometer



The following data can be obtained from filtration testing:

- Particle Size Distribution (PSD)
- Feed Solids Concentration
- Feed Viscosity
- Feasibility and Media Selection
- Filtrate Clarity – PPM or Turbidity (NTU)
- Solids Cake Characteristics
- Flux Rates
- Pressure Drop Across Media
- Backwash Characterization
- Backpulse Characterization



Customer needs to provide the following:

- Material Safety Data Sheet (MSDS)
- Mott's Liquid or Gas Filtration Application Data Sheet
- Disposal of all samples

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