

Typical applications for Mott porous metal filter elements.

Mott can be your Solution Provider.

This applications list is a quick review of the varied uses that have been developed for Mott precision porous metal filter elements. Use this list as a handy reference, coupled with the unique design properties of porous media, to see how Mott products can solve problems for you.

Mott porous media and metal filter elements are widely used in a range of industries:

Chemical/Petrochemical

- Corrosive liquids and gases
- Air, nitrogen, carbon dioxide, argon, helium, ammonia
- Process steam
- Oxygen (filters cleaned for O₂ service)
- Solvents, ketones, esters, amines, liquid hydrocarbons, polymers
- Feedwater and make-up water
- High-temperature liquids, gases
- High-pressure ethylene gas
- Cryogenic fluids
- Ethylene glycol
- Catalyst retention, fluid bed reactors
- Catalyst recovery, slurry phase reactors
- High-efficiency solids recovery or liquid recycling

Refinery

- Filtration of FCCU slurry oil

Electronics

- Filtration of oxide slurries for magnetic tapes
- Filtration of ink for high-speed printers

Pollution control/Monitoring

- High-temperature stack gas sampling
- Probe filters for gas and liquid analysis
- Sampling filters for gas and liquid chromatography
- Wastewater and process effluent filtration

Food/Beverage

- Oxygen stripping
- Aeration
- Carbonation
- Hydrogenation
- Clarification
- Flotation
- Vacuum molds
- Process steam filtration
- Catalyst recovery from hydrogenation reactors
- Polishing of syrups, liquors and other liquids
- Sparging (gas/liquid contacting)
 - Nitrogen sparging for
 - Dewatering oil
 - Deoxidizing wines and other products
 - Bulking mayonnaise and salad dressings

Power generation

- Porous metal septa for powered resin filter/demineralizers
- Condensate polishing