

Metal Cartridge Filter-Sintered Powder**Product Coding**
P45XXXXXX**Introduction**

Sintered powder filter elements are precision engineered from fine metal powders that are compacted and sintered to form a rigid, uniform, and highly porous filtration medium. This single piece metallic structure provides exceptional mechanical strength, precise and stable pore sizes, and excellent resistance to high temperatures, corrosion, and differential pressure. Designed for demanding industrial applications, these filters deliver consistent performance in both liquid and gas systems, with a smooth surface that supports repeated cleaning cycles and long service life.

**Features**

- Monolithic porous metal construction for maximum durability
- Uniform and controlled pore structure for accurate filtration
- High resistance to temperature, pressure, and corrosive environments
- Smooth internal surface ideal for backwash and cleaning
- Self supporting design, no additional hardware required
- Available in multiple thicknesses and pore size ranges
- Manufactured in 316L stainless steel with options for duplex, inconel, hastelloy, and monel
- Customizable geometries including cylindrical and disc forms
- Compatible with backwash, ultrasonic, or chemical cleaning methods

Applications

- Catalyst recovery and retention in chemical processes
- Filtration of polymer melts and high viscosity materials
- Chemical and petrochemical production
- Steam, gas, and high temperature process filtration
- Liquid filtration with backwash or regeneration cycles
- Protection of sensitive equipment in industrial systems
- Systems requiring consistent micron ratings and high structural integrity



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