



Sintering is a process for making articles from its base material in powder. They are made by mixing elemental or alloy powders and compacting the mixture in a die, the resultant shapes are then sintered or heated in a controlled atmosphere furnace to bond the particles. Sintering is traditionally used for manufacturing ceramic objects and after that it is used for filtration application.

Due to sintering process, particles join with each other and form a porous structure which allow any fluid, air or gas to pass through without disturbing its structure. This structure is robust in nature to handle particle above stipulated micron rating. Such elements are back washed some time for cleaning purpose to remove deposited particle load. These sintered solid filters are able to withstand very high differential pressure across the filters.

Features & Benefits

- Made of single base material, hence free from any binder
- Specific Pore size distribution due to sintering process
- Withstand very high differential pressure
- High void volume compared to conventional sintered material
- Easy to clean & back wash
- Wide chemical compatibility

Technical Specifications

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|------------------|------------------------------|
| • Sizes | 10", 20", 30", 40" Long |
| • Micron Rating | 1, 5, 10, 25, 50, 100 Micron |
| • Outer Diameter | 64 mm, 70 mm |
| • Inner Diameter | 28 mm, 40 mm |

Configuration

- Double Open Type (DOE Type)

Construction

- Sintered Polypropylene
- Sintered Polystyrene
- Sintered Acrylonitrile
- Sintered Ceramic
- Sintered Polyethylene

Applications

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|-----------------------------|---|
| • Compressed air filtration | |
| • Gas filtration | |
| • Fine Chemicals | Solvents, Process Streams, Water Purification |
| • Magnetic coating | Dispersions, Coating Lines, Solvents |
| • Petrochemicals | Water flood, Completion Fluids, Amines |
| • Cosmetics | Alcohols, Essential oils, Water lines |
| • Water Treatment | membrane Protection, Resin Trap |
| • Metal Finishing | Plating solution, paint and resin products, Washing |
| • Electronics | Electroplating, Etching, Image development |