

30+
YEARS
EXPERIENCE

SANKALP CORPORATION

HOUSE OF PROCESS FILTERS

www.sankalpfilters.com



ABOUT US

Sankalp Corporation, often known as the "House of Process Filters," was founded in Hyderabad, Andhra Pradesh, India, in 1991. We are producers and providers of process filtration machinery and accessories for the industrial, pharmaceutical, and chemical industries.

Our business is managed by trained technocrats experienced in food, chemical, brewing, aquaculture, mineral water, oil, pesticide, and pharmaceutical industries.

For over 30 years, Sankalp Corporation has delivered world class performance to the most demanding of environments, and industries including:

- Aerospace and Defense
- Food & Beverage
- Gasification
- Nuclear
- OEM
- Oil and petrochemicals
- Pharmaceutical
- Printing
- Process.

Our commitment to technical excellence and top-notch customer service is the foundation of our ongoing success. Our continued investment in new products and R&D enables us to deliver cutting-edge new products that surpass our customers' expectations.

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MSME
MICRO, SMALL & MEDIUM ENTERPRISES
संकल्प, विश्व, एवं मन्वय उद्यम





SPUN BONDED FILTER CARTRIDGE

Characteristics

- Free of surfactants, binders and adhesives
- Excellent flow with low pressure drop
- High dirt holding capacity
- 100 % Polypropylene for wide chemical compatibility
- High strength & pressure resistance
- One piece construction
- Nominal & absolute filtration rating

Sankalp Spun Bonded filter cartridge is a high-quality product made from pure polypropylene ultrafine fibers that are thermally fused together without any chemical adhesives.

The three-dimensional microporous structure is formed by randomly bonding the fibers in space, which integrates surface, depth, and fine filtration. The deep filter structure has a gradual pore size outside and dense inside, which gives it a strong dirt holding capacity.

Sankalp Spun Bonded filter cartridge are produced in a 100,000-grade clean environment, and all materials and components are made of FDA-certified materials.

Filter media : Polypropylene

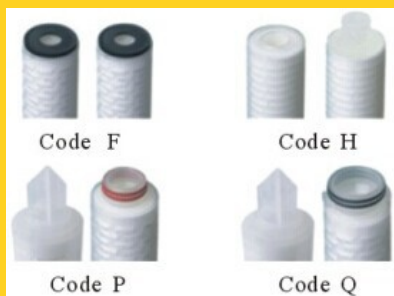
Core: PP

Outside diameter: 64 mm(2.5"), 100 mm(4"), 110mm(4.5") 6", 8"

Inner diameter: 28mm(1.1"), 30mm (1.2")

Length: 10", 20", 30", 40", 50", 60", 75",100"

Micron Rating: 0.5, 1, 5, 10, 20, 25, 50, 75, 100



Applications

- Food & Beverages Bottled water, Flavors, Polishing Lines
- Pharmaceuticals Base product clarifications, Membrane prefilter
- Fine Chemicals Solvents, Process Streams, Water Purification
- Water Treatment Membrane Protection

Applications

- Petrochemicals Water flood, Completion Fluids, Amines
- Cosmetics Alcohols, Essential oils , Water lines
- Metal Finishing Plating solution, paint and resin products, Wash
- Electronics Electroplating, Etching, Image development

Spun Bonded Filter Cartridges are not integrity testable.

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WOUND FILTER CARTRIDGE



Characteristics

- It fits all the standard housings.
- Low pressure drop, high dirt holding capacity and long service life
- Loose outer layers and tight inner layers offers effective depth filtration
- Various filter media fit and various applications
- Polypropylene maximum recommended operating temperature $\leq 60^{\circ}\text{C}$
- Bleached cotton material filter cartridge with stainless core maximum recommended operating temperature : 120°C

The most difficult filtering tasks may be met with nominally rated **Sankalp Wound Filter Cartridge**. They provide a filtration system that is affordable, small, simple to install, and easy to maintain for the removal of particles from fluids.

Sankalp Wound Filter Cartridges are a type of depth cartridge filter that is made by weaving microfiber yarn around a core in a honeycomb-shaped weave in order to form a gradient structure to allow better filtration.

Due to their high dirt-holding capabilities and durable design, **Sankalp Wound Filter Cartridges** are highly valued in the pharma and process industries and may be used for a variety of liquid and gas filtration applications.

Filter media : Polypropylene, Bleached Cotton

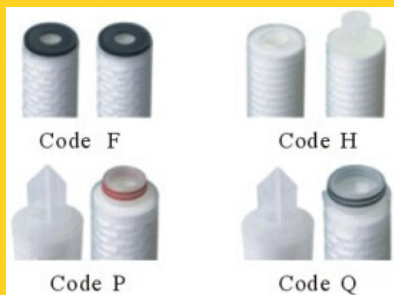
Core: PP, Stainless Steel

Outside diameter: 64 mm(2.5"), 100 mm(4"), 110mm(4.5") 6", 8"

Inner diameter: 28mm(1.1"), 30mm (1.2")

Length: 10", 20", 30", 40", 50", 60" Long

Micron Rating: 0.5, 1, 5, 10, 20, 25, 50, 75, 100



Polypropylene Wound Filter Cartridge

- Organic Acids
- Oils
- Concentrated Alkalis
- Pre filter Drinking Water
- Organic solvents
- Electroplating solution
- Photographical process fluid
- Pharmaceuticals

Bleached Cotton Wound Filter Cartridge

- Vegetable Oils
- Dilute Acids
- Alkalis
- Organic solvents
- Portable liquids
- Glass fiber wound filter cartridge
- High temperature filtration of Mineral Acids, Organic solvents and Oils

Wound Filter Cartridges are not integrity testable.

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PLEATED FILTER CARTRIDGE

Characteristics

- Constructed entirely from polypropylene.
- Available in absolute and nominal efficiency.
- 0.1 to 40 Micron.
- Gradient density micron fiber media.
- High surface area of over 0.5 m² per 10" filter.
- The filters have a sturdy outer cage.
- Biologically safe.
- Broad range of chemical compatibility.
- NO fiber migration.
- Thermally welded.
- FDA-approved filters.
- end connections are compatible with all standard housings.

The most difficult filtering tasks may be met with nominally rated Sankalp Wound Filter Cartridge. They provide a filtration system that is affordable, small, simple to install, and easy to maintain for the removal of particles from fluids.

Sankalp Wound Filter Cartridges are a type of depth cartridge filter that is made by weaving microfiber yarn around a core in a honeycomb-shaped weave in order to form a gradient structure to allow better filtration.

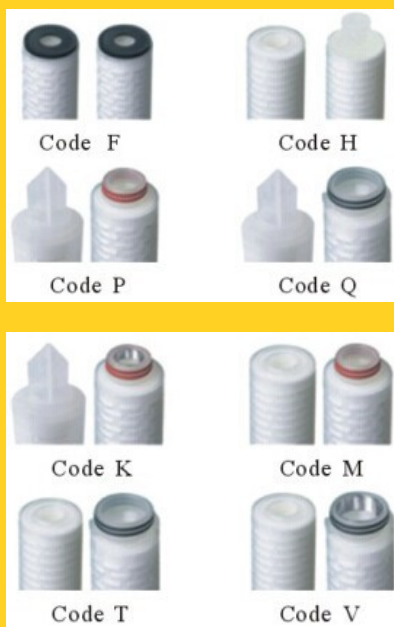
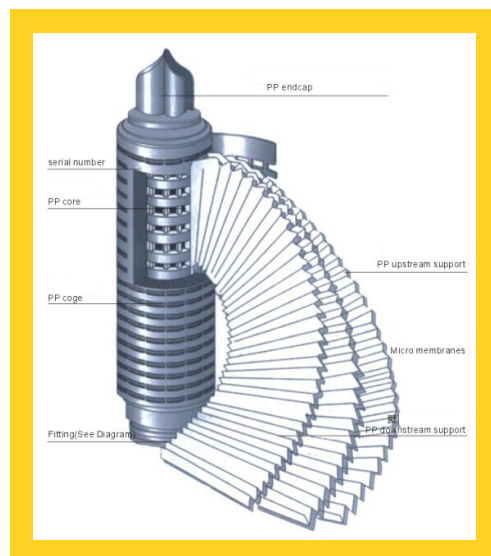
Due to their high dirt-holding capabilities and durable design, Sankalp Wound Filter Cartridges are highly valued in the pharma and process industries and may be used for a variety of liquid and gas filtration applications.

Filter media : 100 % Melt blown micro denier polypropylene fiber
Core: High strength polypropylene
Outside diameter: 69 mm(2.7")
Inner diameter: 28mm(1.1"),
Length: 10", 20", 30", 40", 50", 60"
Micron Rating: 0.1, 0.2, 0.45, 0.5, 1, 5, 10, 20, 40

Polypropylene

Wound Filter Cartridge

- Organic Acids
- Oils
- Concentrated Alkalis
- Pre filter Drinking Water
- Organic solvents
- Electroplating solution
- Photographical process fluid
- Pharmaceuticals



Pleated Filter Cartridges are integrity testable.

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LENTICULAR MODULE

Sankalp Filters lenticular modules offer flexible and cost-effective filtration operations that address the weaknesses of traditional depth filtration technologies such as flat filter sheets.

Unlike the labor-intensive process of using flat filter sheets, Sankalp Filters lenticular modules provide longer filtration runs with improved filtrate quality, no drip losses, and lower dead volumes, resulting in increased yield.

Sankalp Filters lenticular modules are designed with a double separator concept that provides stability to the filter sheets and prevents distortion during heat treatments and hot sanitation. The cartridge is equipped with rigid external clips that protect the filter sheets from damage during module loading and unloading. This ensures easy and reliable handling enabling quick and easy change-outs, increased process safety, and reduced handling.



Characteristics

- Washable under specific conditions, leading to extended service life
- Simple and dependable handling with inflexible exterior clips for filter sheet protection
- No negative impact on filter sheets during hot sanitization or process filtration
- Filter modules made in a clean room.
- Material of construction adhere to FDA regulations for contact use in food and beverage
- Filter modules have successfully passed European Commission Directives (EU10/2011)

Filter media : Cellulose, Activated Carbon & Cellulose fibers

End Cap : DOE with Gasket, SOE with double O ring

Outside diameter : 8", 12", 16"

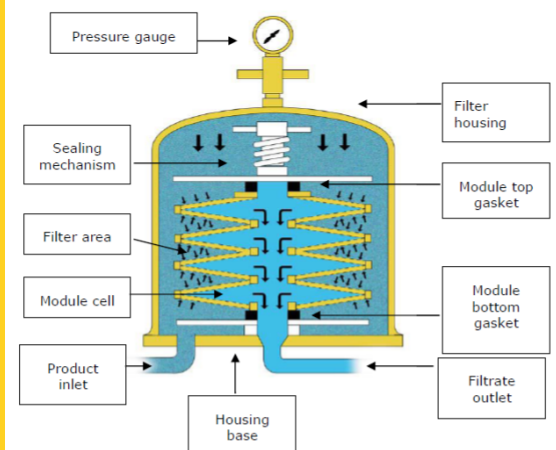
Seal : Silicone, EPDM, NBR, FKM

Cell Construction : 7, 8, 9, 12, 15, 16

Micron Rating : 0.2, 0.4, 0.45, 0.6, 0.8, 1, 5, 10, 20, 25, 50, 60

Applications

- Bio-Pharmaceuticals Blood Products, Vaccine, Antibiotics, Growth Media
- Food Products : Syrups, Vinegar, Edible Oils, Sugars
- Beverages: Wine, Beer, Juices, Soft Drinks, Cider, Liquor, Milk and dairy
- Cosmetics Perfumes, Lotions, Shampoos, Deodorants, & Colognes



Lenticular Modules are not integrity testable.

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STAINLESS STEEL SINTERED FILTER CARTRIDGE

Sintering is a process used to make articles from base material in powder format. The process involves mixing powders, and then heating them in a controlled atmosphere furnace to bond the particles. The resulting porous structure is robust and able to handle particles above the stipulated micron rating, allowing fluid, air, or gas to pass through without disturbance.

Sankalp Sintered Stainless steel cartridges are absolutely non particle shedding. It ensures complete prevention of product contamination. It is particularly well-suited for applications that involve high temperatures and pressures.

Sankalp Sintered Stainless steel cartridges cleaning can be easily achieved through back-flushing with water or an appropriate medium, making them a low-maintenance option.

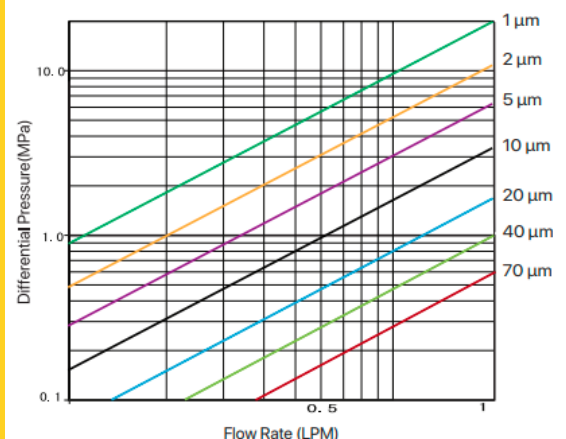
Filter media : Stainless Steel (304, 304L, 316, 316L)
Ends: SOE Bayonet and Flat, DOE
Outside diameter: 64 mm (2.5")
Inner diameter: 28 mm (1.1")
Length: 10", 20", 30", 40", 50" , 80" (Customized sizes available)
Micron Rating: 0.2, 0.5, 1, 3, 5, 10, 20, 25, 50, custom also available

Characteristics

- High-temperature resistance.
- Chemical compatibility: These filters are resistant to a wide range of chemicals, making them ideal for use in harsh chemical environments.
- Sankalp Sintered SS filters can handle particles above the stipulated micron rating and withstand very high differential pressure across the filter.
- Long lifespan

Applications

- Catalyst Recovery
- Polymer Filtration
- Cross Flow Filtration
- Gas Filtration
- Oil Filtration
- Aerosol Application
- Gas – Liquid Separation
- Hot Gas Filtration
- Fuel & Hydraulic
- Oil Filtration
- RO Pre filtration



Stainless Steel Filter Cartridges are integrity testable.

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COMPRESSED AIR FILTER: OMO

GRADE PF Coarse Pre-Filtration Particle removal down to 25 microns.

GRADE AO High Efficiency General Purpose Protection For the removal of particles down to 1 micron including coalesced liquid water and oil, providing a maximum remaining oil aerosol content of 0.5 mg/m³ @ 21°C.

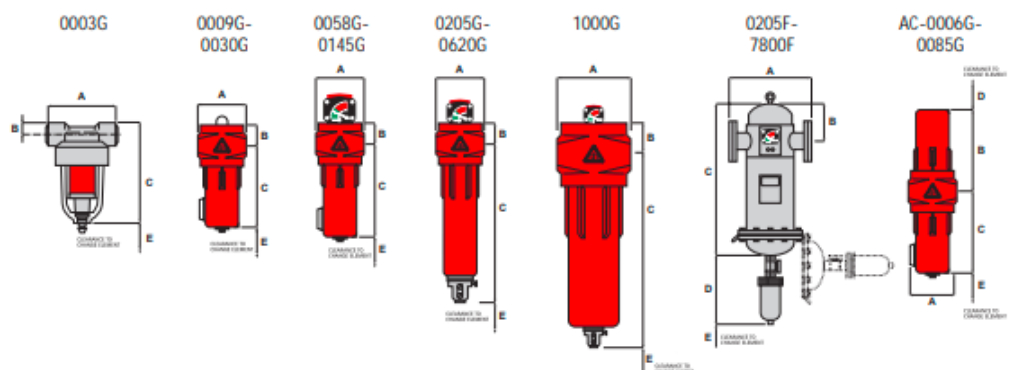
GRADE AA High Efficiency Oil Removal Filtration For the removal of particles down to 0.01 micron including water and oil aerosols, providing a maximum remaining oil aerosol content of 0.01 mg/m³ @ 21°C. (Precede with Grade AO filter).

GRADE AX Ultra High Efficiency Filtration For the removal of particles down to 0.01 micron including water and oil aerosols, providing a maximum remaining oil aerosol content of 0.001 mg/m³ @ 21°C. (Precede with Grade AO filter).

GRADE AC & ACS Activated Carbon Filtration For the removal of oil vapour and hydrocarbon odours giving a maximum remaining oil content of <0.003 mg/m³ (<0.003 ppm) (excluding methane) @21°C. (Precede with Grade ACS with Grade AA filter). (AC filter combines AA and AC Grades).

GRADE AR General Purpose Dust Filtration For the removal of dust particles down to 1 micron. GRADE AAR High Efficiency Dust Filtration For the removal of dust particles down to 0.01 micron.

Sankalp Filters OMO compressed air filters provide the highest standard ISO 8573.1 quality compressed air with the lowest running costs available. Save more than 50% in energy costs with OMO. When compared to typical filters, OMO has the highest performance and quality - better than 99.9999% efficiency and particle retention down to 0.01 micron.



OTHER PRODUCTS

PROCESS FILTER HOUSINGS

Bag Filter Housing
Basket Filter & Strainers
Catalyst Recovery Systems
Filter Cartridge Housing
Giant Filter Cartridge Housing
High Flow Filter Cartridges Housing
Industrial Filter Cartridge Housing
Metallic Filter Housing
Nutsche Filter Housing
PVC Filter Cartridge Housing
Sanitary Gas/ Air Filter Cartridge Housing
Sanitary Liquid Filter Cartridge Housing
Self Cleaning Filter Housing

PROCESS FILTRATION BAGS (LIQUID)

Carbon Bags
Felt Filter Bags
Filter Bags Liquid
Iron Removal Filter Bags
Mesh Bags
Oil Adsorbing Bags
PP Pleated Hardshell Bags
Water Absorbent Bags

FILTRATION METALLIC CONSUMEABLES

Hastelloy Filter Cartridge
Multi-layered SS Filter Cartridge
Pleated SS Filter Cartridge
Sintered SS Filter Cartridge
Stainless Steel Filter Cartridges
Mesh Filter Cartridge

FILTRATION NONMETALLIC CONSUMEABLES

All PTFE Filter Cartridge
All PVDF Filter Cartridge
Candy Filter
Capsule Cartridge
Carbon Cartridges
Catalyst Recovery Cartridge
Cellulose Cartridge
Conical Disc Filters
High Flow Cartridges
Lenticular Filter Module
Nylon Cartridge
Oil Adsorbing Filter Cartridge
PES (Poly Ether Sulphone) Filter Cartridge
Plain Mesh Cartridge
Pleated Depth Filter Cartridge
Pleated Glass Fibre Filter Cartridge
Pleated PTFE Cartridge
Pleated Polypropylene Cartridge
Resin-Bonded Filter Cartridge
Sintered (Non – Metallic) Filter Cartridge
Sintered Polypropylene Cartridge
Spun Bonded Filter Cartridges

VALVES

Ball Valve
Needle Valve
Diaphragm Valve
FEP Diaphragm valve

AIR FILTRATION

Compressed Air Filters
Conical Disc Filters
Dust Collection Filter Bag
Woven/ Non Woven Filter Bags
Pleated Dust Collection Bags
Vent Filters

CAPSULE FILTER

PP Capsule Filter
PES Capsule Filter
PTFE Capsule Filter
Glass Fiber Capsule Filter

SYRINGE FILTER

PES Syringe Filter
PTFE Syringe Filter
Nylon 66 Syringe Filter

MEMBRANE HOLDER

293 Membrane Holder
142 Membrane Holder
47 Membrane Holder

FILTER ACCESSORIES

FEP Encapsulated "O" ring
Silicone "O" Ring
Viton "O" Ring
Filter Pads
Gasket
Non Woven Pads
Pressure Gauge
Tie Rod

GET IN TOUCH

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