

BorsoSpun-PE

VAN BORSELEN FILTERS



Nominal Rated Polyester Depth Filter Cartridge

The **BorsoSpun-PE** filter cartridge is a high flow, graded depth filter with high contaminant capacity for long life. Constructed from FDA approved polyester with excellent performance characteristics, it is an economic choice for a wide range of applications.

BorsoSpun-PE filter cartridges are available in a range of industrial standard lengths as either absolute or nominal rated cartridges.

Also available in Polypropylene for lower temperatures and Nylon construction for solvent filtration.



Features and Benefits:

- **BorsoSpun-PE cartridges**

Extensive research and selection of the latest and most advanced polyester meltblown filter media, results in improved performance, leading to extended filter life at a given efficiency.

- **Graded depth media**

The graded structure of the media provides prefiltration of the process fluid prior to the absolute rated final layer. This combination provides economy of use and a smaller process footprint.

- **High degree of chemical compatibility**

Constructed entirely of polyester and/or with Stainless steel core.

- **Absolute and nominal removal ratings**

BorsoSpun-PE cartridges are validated using recognised industry standard test methods.

- **Suitable for steam and hot water sanitisation**

BorsoSpun-PE cartridges are resistant to repeat steam sterilisation and hot water cycles.

- **Environmentally friendly**

BorsoSpun-PE filters are environmentally friendly, all spent cartridges can be readily incinerated to trace ash.





Specifications

Materials of Manufacture

Filter media: Polyester
Filter core: Polyester or
Stainless steel
End fittings: Polyester

Foodgrade approved

FDA 21 CFR 177.1520
FDA 21 CFR 177.2600
EC 10/2011

Cartridge Dimensions

Diameter: 63mm (2.5")
Length: 254mm (10")
508mm (20")
762mm (30")
1016mm (40")

Gaskets and O-Rings

Ethylene Propylene, FEP encapsulated, Silicone, Viton®,
Nitrile or Polypropylene felt available.

Maximum Differential Pressure

90°C (68°F): 2 bar (29psi)

Operating Temperature

Maximum continuous: 120°C (248°F)

Cartridge Construction

The high quality robust polyester construction of **BorsoSpun-PE** cartridges, allows for excellent chemical compatibility with a wide range of fluids.

The meltblown polyester media provides a bonded matrix thus eliminating fibre migration.

The inherent structural stability of the **BorsoSpun-PE**, prevents 'channelling' and avoids the risk of particle unloading even under impulse conditions. The **BorsoSpun-PE** fusion bonded construction ensures cartridge integrity. No surfactants or bonding agents are used, minimising extractables.



Applications

BorsoSpun-PE cartridges provide absolute and nominal filtration where the cost of filtration is critical. Suitable for the filtration of aqueous and organic liquids, **BorsoSpun-PE** cartridges can be used as prefilters or final filters in the following applications:

- **Food and beverage**
Process water, polishing lines and clarification.
- **Pharmaceuticals**
Prefiltration and clarification.
- **Fine chemicals and solvents**
Process streams.
- **Coatings**
Coating lines, solvents, inks and dyes.
- **Photographic chemicals**
Emulsions and process water.
- **Metal finishing electroplating**
Paint and resin production.
- **Water treatment prior to reverse osmosis**
Resin traps and potable water.
- **Cosmetics product filling**
Water lines and batch filtration.





Additional Information

Range

Van Borselen Filters Supplies a full range of filtration products: e.g.: Filtercartridges (pleated/ Membranes/ Activated Carbon) Filter housings, Filterbags, Lenticular Module filters, Self Cleaning Filters, Filter Sheets, Sieving Machines, Porous Sintered Metal, Oilskimmers, Strainers and many more..

Material Conformity and Validation

The bio-safety of all materials used in the manufacture of BorsoSpun cartridges is assured by FDA approval to Title 21CFR.177. and EC 10/2011

Chemical Compatibility

The BorsoSpun materials of construction are compatible with a wide range of chemicals and solvents, however care must be taken to select the appropriate seal material. Advice on chemical compatibility is available. Since operating conditions vary considerably between applications, verification by the end user is recommended.

Quality control

Our factories are all located in Western Europe and are accredited to ISO 9001-2008.

All our filters are fully traceable and manufactured under clean room conditions.

Engineering capacities

One of our strengths is developing filter vessels for critical applications in the chemical industry.

We have a wide experience in supplying filter vessels, like Duplex (UNS S31803), Super-Duplex (UNS S32750/60), Titanium, RvS316L, CS (optionally with a coating or lining).

Our filter vessels comply with the necessary design codes (ASME VIII, EN13445, U-stamp and PD5500) and comply to ATEX and PED 97/23/EC standards. Both liquids and gasses PED classes I, II, III, IV, all modules



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