

BorsoTef

Superior PTFE Membrane Filters

BorsoTef is a range of superior pleated PTFE membrane filters with PFA supports. These cartridge filters are suitable for use within a number of microelectronics, process and chemical applications.

This chemically inert filter range offers the removal of fine particulate from 0.05-10 micron in challenging operating conditions.

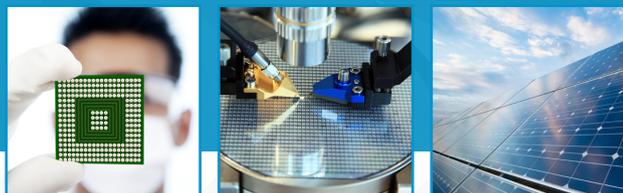
Applications

- **Semiconductor**
Chemical delivery system filtration of strong acid and base solution at room temperature for semiconductor manufacturing.
- **Aggressive chemicals**
Chemical delivery system filtration of strong acid base solution.
- **Photovoltaic**
Aggressive chemical processes in the photovoltaic and data storage industries.
- **High Purity Chemicals**

Features and Benefits



- **Excellent flow characteristics**
Optimised up to 95% porosity, uniform pore size distribution and filtration area with low pressure drop, high flow rate and long service life.
- **Full traceability**
All BorsoTef cartridges are identified with a batch serial number and supplied with a Certificate of Quality.
- **Controlled manufacturing environment**
BorsoTef cartridges are manufactured in an ISO cleanroom environment by fully gowned staff, minimising the risk of contamination.
- **Fast rinse up time**
All filters have been flushed with ultrapure DI water (18.2 Megaohm-cm, TOC less than 10ppb).
- **Low binding and fouling**
BorsoTef filters are manufactured using surface modification agents to ensure minimal extractables and ensure purity performance is not compromised.



Specification

Materials of Manufacture

Filtration media : Hydrophobic PTFE membrane
 End caps : PFA
 Centre core : PFA
 Outer hardware : PFA
 Gaskets/O-rings : PFA Encapsulated FKM

Cartridge Dimensions (Nominal)

Diameter : 67mm (2.6")
 Length : 254mm (10")

Pore Size Rating

0.05, 0.1, 0.2, 0.45, 1, 5 and 10 microns.

Dimension Specifications

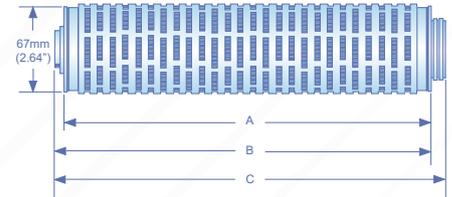
Length (inch)	A	B	C
4	105mm +/-2	110mm +/-2	128mm +/-2
10	237mm +/-2	242mm +/-2	261mm +/-2
20	463mm +/-3	468mm +/-3	486mm +/-3

Total metals (13 elements, ICP-MS)	UHP < 25 ppb / device Ultra Low Metal < 10 ppb / device
Particle shedding cleanliness	< 5 particles / 1ml ≥ 0.15µm @ 10LPM UPW Flow
TOC recovery (per 10" equivalent)	< 5ppb of feed DI water after 120L @ 5LPM
Resistivity recovery (per 10" equivalent)	< 0.5MΩ of feed DI water after 120L @ 5LPM

Ordering Information

Product Code: X - X - X - X - X - X e.g. PART NUMBER: BPTF13SP002

Series	Length in Inch	Adapter	Seals	Core	Micro Rating
BPTF BorsoTef	04 4" 1 10" 2 20"	3 Code 3 (222) <i>Other options available</i>	E EPDM S Silicone V VITON K Kalrez FEP FEP / Silicon	P Standard	OX5 0,05 001 0,1 002 0,2 <i>Other options available</i>



Differential Pressure

Maximum forward differential pressure:
 5bar (72.5psi) @ 25°C (77°F)

Recommended Change Out Differential Pressure

2.4bar (34.8psi)

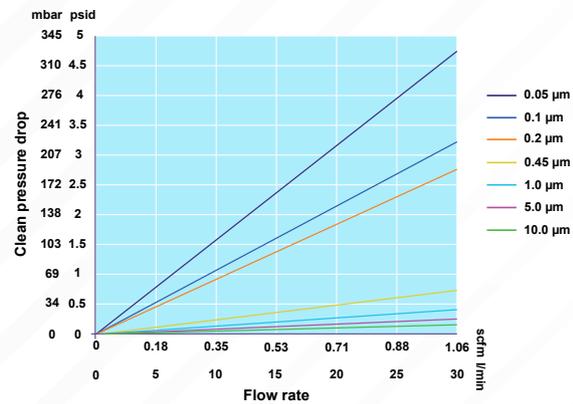
Maximum Operating Temperature

180°C (356°F) at the above conditions.

Metallic Cleanliness

<25µg per device. Ultra-high-purity

Flow Rates



Van Borselen Filters

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