

Whatman™ Puradisc™ 25 TF Disposable Filter Device

Product Information sheet

Warnings

For research use only.
Not recommended or intended for diagnosis of disease in humans or animals.

Puradisc 25 TF disposable filter devices have been designed to provide pure filtration of solvents, chemicals and non-aqueous solutions and samples. They consist of a PTFE membrane with a polypropylene housing.

Disposable filtration devices provide great labor saving efficiency while ensuring consistent filtration when compared to hand assembled filter housings.

This document provides general information on the products listed below. The specifications in the Technical Data section are intended to provide the basis for establishing functional use, as well as serving quality assurance test parameters levels.

- Hydrophilic PTFE membrane
- Sterile Air Locks
- Polypropylene Housing
- Rugged Construction
- Autoclavable
- Four Pore Sizes available
- 0.1 µm Filter Device for "Ultra Clean" Applications
- Inlet - Female Luer Lock (FL)
- Outlet - Male Slip Luer (MSL)
- Integrity Testable BP or WSTT (WSTU)

Puradisc 25 TF - 25 mm Filters

Catalog No.	Product Name	Pore size	Media	Qsg, ml/g
6719-2501	Puradisc 25 TF	0.1	PTFE	50
6719-2502	Puradisc 25 TF	0.2	PTFE	50
6719-2504	Puradisc 25 TF	0.45	PTFE	50
6719-2510	Puradisc 25 TF	1.0	PTFE	50
6719-2502	Puradisc 25 TF	0.2	PTFE	200
6719-2504	Puradisc 25 TF	0.45	PTFE	200

HPLC Solvent Filtration
Sterile Air Locks
Air/Gas Filtration
Venting: Sterile solution; holding vessels
Isolation: Gas passed, liquid/vapors held stopped
Batch: Sterile vents & exhausts for growth environments, in-line sterile gases
Electronics: Photoresistor, solvents, gases for research

Operating Instructions
Setting: When considering the special needs of your application, consult the Technical Data to determine appropriate use. Do not exceed the pressure, temperature or chemical compatibility recommendations. High pressures can be obtained when using syringes. The smaller the syringe the higher the pressure that can be generated. As a general guide, the following pressures can be obtained by holding the filter device in one's hand: 60 ml = 12 psi, 10 ml = 18 psi, 1 ml = 200 psi, 1 ml = 250 psi. Each user should determine the pressure they can generate by hand with a specific size syringe and take appropriate safety precautions not to exceed the recommended rating for the device used. If these limitations are exceeded, bursting of the device may occur resulting in loss of sample or personal injury.

Pressure Test: Considerations: PTFE membrane is hydrophilic and will not allow water to pass without resistance. This pressure is called the water breakthrough Test (WST) value and changes with the pore size of the membrane. Aqueous solutions may be filtered if the membrane is initially "wetted" with alcohol or another appropriate solvent. PTFE membrane will stop aqueous liquids in gas streams.

Efficiency: To increase filtration throughout, use the largest pore size filter that will provide the required cleanliness. Sterilization of liquids requires a sterile 0.2 µm filter. To extend filter life, flow low or pressure and prefilter.

Autoclaving: Autoclave at 121°C (252°F) mode for 20-minutes PTFE is designed by radiation sterilization.

To use with a syringe:
1 Fill the syringe with the solution to be filtered.
2 Secure the filter syringe to the FLL on the inlet, with a twisting motion.
3 Gently apply thumb pressure to the syringe plunger, to initiate flow.
4 Change filters when flow becomes too slow or resistance becomes excessive.

Air Locks seriously hamper flow rates. To eliminate, point the outlet of the filter device upward during the initiation of liquid flow and use low pressure.

Bubble Point (BP) Test: Flush the filter device with 1.0 ml or more of liquid until the filter is wet. Attach a 10 ml syringe to the filter device inlet, and the outlet ported connector, apply air under controlled pressure to the inlet until air breaths through the membrane and bubbles form at the outlet. The pressure at which air passes through the wetted membrane is the BP. Refer to table for the BP values.

Water Breakthrough Test (WST): The WST will determine gross integrity of the filter device. The filter device must be dry. Use 1 ml water in a 10 ml syringe. Connect the syringe to the filter device inlet and apply a constant pressure for 15 seconds. An integral membrane should hold water up to the published WST pressure.

Vents: Attach inlet connector to vessel, the other connector is open to atmosphere. If exhaust gas is saturated with moisture, install vent filter in a vertical position to allow collected moisture to drain back into

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Cod. 09.9024.00

Filtro in PTFE autoclavabile per Swiftpet Pro da 0,45 µm cf .5 pz.



Descrizione

Filtro in PTFE autoclavabile per Swiftpet Pro da 0,45 µm cf .5 pz.

Dati Tecnici