

Whatman Puradisc™ 30 mm syringe filters

Instructions for Use

Introduction

Important

Read these instructions carefully before using the products.

Intended use

The products are intended for research use only, and shall not be used in any clinical or *in vitro* procedures for diagnostic purposes.

Background

Description

Whatman Puradisc™ 30 mm syringe filters are disposable filter units designed to provide clean filtrate from small volumes up to 100 mL. They consist of a polytetrafluoroethylene (PTFE) membrane with a polypropylene overmold housing.

The product is available in sterile and non-sterile versions. The sterile product is sealed in a medical grade clear blister pack, radiation sterilized and sealed in its own protective shelf pack.

This document provides general information on the Whatman Puradisc 30 mm syringe filters. The specifications provided are intended to provide a basis for establishing functional use, as well as for setting the performance levels of the quality assurance test.

Typical applications

Filter Media	Typical Application
PTFE	Organic based samples Hydrophobic membrane

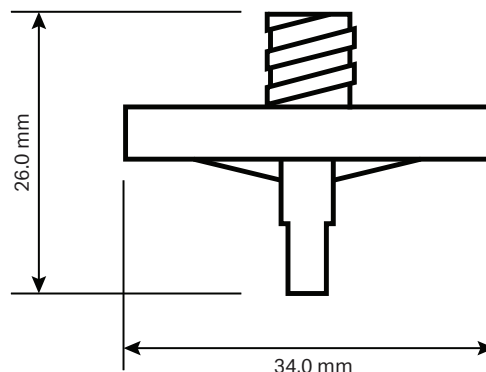
Filter media

The following filter media choices are available for Whatman Puradisc 30 mm syringe filters.

Polytetrafluoroethylene (PTFE) Membrane

Polytetrafluoroethylene membrane is hydrophobic and does not allow water to pass except under high pressure. Aqueous solutions can be filtered if the membrane is initially wetted with alcohol or another appropriate solvent. Polytetrafluoroethylene membrane stops aqueous aerosols in gas streams.

Technical data



Dimensions:	26 mm x 34 mm
Filtration area:	5.7 cm ²
Operating pressure:	100 psi
Housing:	Polypropylene
Hold-up volume:	≤ 50 µL after air purge
Flow direction:	Flow should enter from inlet
Connectors:	Inlet: Female Luer connector (FLL) Outlet: Male Luer connector (ML)
Sterilization:	Autoclave at 121°C at 15 psi for 20 minutes Sterile product: Pre-sterilized with gamma radiation

Operating instructions

Safety

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 general guideline, the following pressures can be obtained by hand with the syringes indicated:

	Syringe size				
	20 mL	10 mL	5 mL	3 mL	1 mL
Pressure obtained by hand	0.6 MPa (5.5 bar, 80 psi)	1.0 MPa (9.7 bar, 140 psi)	1.2 MPa (12.4 bar, 180 psi)	1.4 MPa (14 bar, 200 psi)	1.7 MPa (17 bar, 250 psi)

Determine the pressure generated by hand with a specific syringe size and take appropriate safety precautions not to exceed the recommended rating for the device used.



CAUTION

If the maximum operating pressure is exceeded, bursting of the device can occur, resulting in loss of sample or personal injury.

Efficiency

To maximize filtration throughput, use the filter with the largest pore size that provides the required purity. To extend filter life, use low flow rates or pressures.

Air locks

Air locks can seriously limit flow rates. To eliminate air locks, point the outlet of the filter device upward during the initiation of liquid flow.

To filter a solution with a syringe

Follow these steps to filter a solution with a syringe.

Step	Action
1	Fill the syringe with the solution to be filtered.
2	Secure the filled syringe to the FLL inlet of the syringe filter with a twisting motion.
3	With the outlet pointed upward, gradually apply thumb pressure to the syringe plunger to initiate flow.
4	Continue thumb pressure until all the air in the syringe is displaced with liquid.
5	Once liquid starts to exit the syringe filter from the outlet, stop applying pressure, point the syringe downward and away from the user.
6	Orient the syringe filter over a suitable collection container or other apparatus, and apply pressure again to filter the sample.

Integrity test

Bubble point test

Follow these steps to perform a bubble point test if required for your application.

Step	Action
1	Flush the filter device with 1.0 mL or more of the test fluid.
2	After the filter is completely wet, with the outlet pointed upward, apply air under controlled pressure to the inlet until air breaks through the filter and bubbles can be seen at the outlet.
3	The pressure at which air passes through the wetted filter is the bubble point.

See the following table for typical bubble point values.

Bubble point data

The bubble point was determined with 95% IPA.

Description	Pore Size (μm)	Minimum Bubble Point (psi)
PTFE	0.2	11.6
PTFE	0.45	8.3
PTFE	1.0	5
PTFE	5.0	0.1

Ordering information

For ordering information, visit [cytiva.com](https://www.cytiva.com).

Certificate of Conformity

Lot-specific Certificate of Conformity for the Whatman Puradisc 30 mm syringe filters is available for download at [cytiva.com/support/quality/certificates](https://www.cytiva.com/support/quality/certificates).

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