

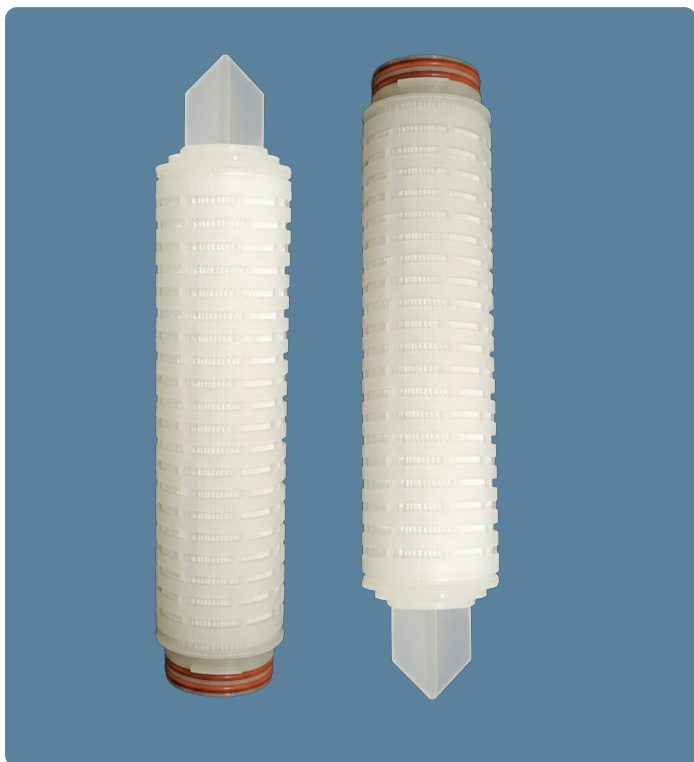
Datasheet TechPleat APT

TechPleat APT - PTFE Filter Cartridges

TechPleat APT cartridge filters are high-purity pleated PTFE membrane filters designed for aggressive chemical and microelectronics process applications.

Constructed using hydrophobic PTFE membrane media with PFA structural components, the filters provide exceptional chemical compatibility and resistance, low extractables, and reliable fine particulate retention across a broad range of critical process fluids.

Manufactured in a cleanroom environment and pre-flushed using ultrapure DI water, TechPleat APT filters are suitable for high-purity applications requiring low particle shedding, fast rinse-up, and excellent cleanliness performance.



Key Features

- Hydrophobic PTFE membrane
- PFA support structure for maximum chemical resistance
- High-purity construction
- Manufactured in cleanroom conditions
- Low extractables and particle shedding
- High porosity for low differential pressure and high flow rates
- Fast rinse-up and low extractable characteristics
- Broad chemical compatibility
- Suitable for microelectronics and chemical processing applications

Typical Applications

- Microelectronics process chemicals
- Semiconductor manufacturing
- Aggressive acids and solvents
- High-purity DI water systems
- Chemical processing
- Fine chemical filtration
- Photoresist and developer filtration
- High-purity transfer systems

Operating Conditions

Feature	Specification
Maximum Differential Pressure	5.0 bard @ 25 °C
Recommended Change-out dP	2.4 bard
Flow Direction	Inside-to-out
Available Lengths	10", 20", 30"

High Purity Performance

Parameter	Performance
Metallic Cleanliness	<25 µg per device
Particle Shedding	<5 particles/ml ≥0.15 µm
TOC Recovery	<5 ppb after 120 L
Resistivity Recovery	<0.5 MΩ drop after 120 L

Construction Materials

• Membrane	Hydrophobic PTFE membrane
• Support Structure	PFA
• End Caps	PFA
• Inner Core	PFA
• Outer Cage	PFA
• O-ring Material	PFA encapsulated Viton

Ordering information

Code	Micron rating (µm)	Length (inch)	End cap	O-ring
TF-APT	005 - 0.05 µm	10 - 10"	FH - 226 / fin	T - FEP encapsulated Viton
	010 - 0.1 µm	20 - 20"	FG - 226 / flat	
	020 - 0.2 µm	30 - 30"	EH - 222 / fin	
	045 - 0.45 µm		EG - 222 / flat	
	01 - 1.0 µm		ZH - 224 / fin	
	05 - 5.0 µm		ZG - 224 / flat	
	10 - 10.0 µm			

Disclaimer

Information provided is based on standard product data and is subject to change. Techno Filter B.V. is not liable for incorrect application or improper use of the product.