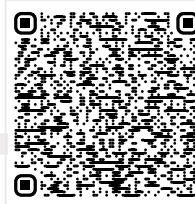


GR-CT Membrane Filter Cartridge



[-> to the product](#)



GR-CT pleated membrane cartridges feature a PTFE membrane and PFA structural components to provide excellent chemical and temperature resistance for aggressive chemical applications such as etchers, strippers, cleaners and bulk chemicals. The allfluoropolymer construction provides for the highest level of fluid purity and will exhibit rapid rinse-up to 18 MΩ-cm resistivity and single digit ppb levels of TOC. GR-CT filter cartridges are produced and manufactured in an ISO cleanroom and are 100% integrity tested to ensure performance standards.

Typical applications

- Etching bath and cleaning chemicals: sulfuric acid, hydrofluoric acid, phosphoric acid
- Chemical filtration in semiconductor manufacturing
- Solvent filtration
- Pharmaceutical products
- Final filtration of 18 MΩ- water
- Aggressive acids and bases
- Hot DI water
- Process gases

Main features

- Manufactured, flushed, tested and packaged in an ISO Class 7 Cleanroom Environment
- Filters are flushed with 18 MΩ-cm DI water to ensure low extractables and low particle shedding
- 100% integrity tested to provide reliable performance
- Resistivity rinse-up to 18 MΩ-cm and single digit ppb TOC levels with minimal throughput
- Wet-Pack option available to eliminate the requirement for solvent pre-wetting in aqueous applications

Certifications

- USP Class VI Biological Test for Plastics
- FDA Listed Materials: All materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5 and 177.1550 as applicable for food and beverage contact.

Technical data

| | |
|-----------------------------|--|
| Filtermedia: | PTFE Membrane |
| Inner core, end caps, cage: | PFA |
| Support layers: | FEP, PTFE |
| Gaskets/O-Rings: | Viton (teflon coated), Kalrez Chemraz on demand |
| Micron rating: | 0,05/ 0,1 /0,2 /0,45/1 and 10 µm |
| Diameter: | 69 mm outside 25,4 mm inside |
| Filter surface: | 0,71 m ² (per 10" - Cartridge) |
| Differential pressure: | max. 5,5 bar at 24 °C max. 3,8 bar at 75°C max. 2,0 bar at 125°C max. 1,0 bar at 150 °C |
| Reverse pressure: | max. 3,4 bar at 24 °C max. 1,0 bar at 121°C |

Maximum Diffusive Air Flow (per 10" Cartridge)

| Micron rating | Diffusive Air flow |
|---------------|--------------------------------------|
| 0,05 µm | ≤ 90 cm ³ /min @ 1,5 bar |
| 0,1 µm | ≤ 50 cm ³ /min @ 1,2 bar |
| 0,2 µm | ≤ 50 cm ³ /min @ 0,8 bar |
| 0,45 µm | ≤ 50 cm ³ /min @ 0,34 bar |
| 1 µm | ≤ 50 cm ³ /min @ 0,2 bar |

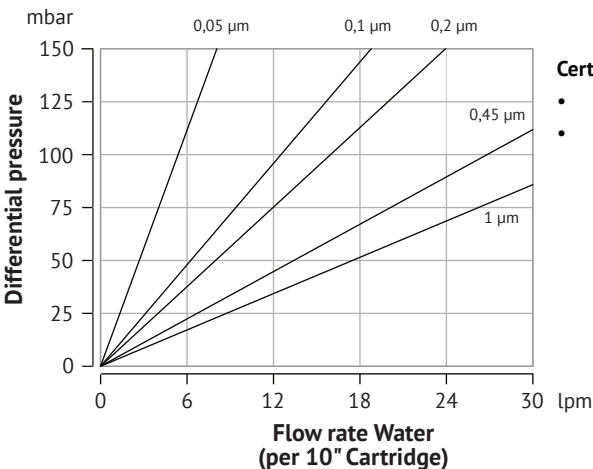
Wet with 60/40 IPA/water

Order example

GR-CT- [] - [] - [] - [] - []

| Adapter | Length | Micron rating | Gasket / O-Ring | Options |
|--------------|----------|----------------|-------------------|-------------|
| 3 222/Flat | 10 10" | 0005 0,05 µm | 5 Teflon encap. | w Pre-wet |
| 2 226/Flat | 20 20" | 001 0,1 µm | C Viton | |
| | 30 30" | 002 0,2 µm | | |
| | 40 40" | 004 0,45 µm | | |
| | | 010 1 µm | | |
| | | 100 10 µm | | |

Order example: GR-CT-320-0005-5



| Rinse-up volume | |
|----------------------------------|----------------------------|
| Resistivity rinse-up to 18 MΩ-cm | < 5 Liter |
| Particle cleanlines | < 10 particles/mL > 0,1 µm |
| Extractable levels | <25 ppd total in 5% HCl |