

# Sartopure GF2

## Adsorptive High Capacity Filter Cartridges



### Description

Sartopure GF2 cartridges are optimized for the protection of downstream membrane filter systems and clarification in biopharmaceutical production processes. Due to their high adsorptive power by glass fiber fleeces, they are the ideal solution for removal of colloids and lipids from bio-pharmaceutical fluids.

### Applications

Sartopure GF2 are ideal for the prefiltration of:

- Fermentation Broths
- Cell Debris solutions
- Serum
- Plasma
- LVP
- Colloid containing solutions
- Lipid containing solutions

### High Adsorption

Based on electrostatic forces of attraction, the negatively charged glass fiber material retains positively charged, small particles that would otherwise pass through the filter. These particles can even be smaller than the nominal filter retention rate.

### Defined Retention Rates

The key feature of Sartopure GF2 cartridges is their defined and accurate retention rating >99.9%!

### High Profitability

The cartridges' high flow rates at a low differential pressure reduce overall costs as less energy is used. Moreover, a high total throughput guarantees the maximum in process profitability.

### Flexibility

Sartopure GF2 filters are available as standard filter cartridges, mini-cartridges, capsules and in various sizes to allow for broadest choice and highest process flexibility.

### Documentation

Sartopure GF2 cartridges are designed, developed and manufactured in accordance with a ISO 9001 certified Quality Management System. A Validation Guide is available for compliance with regulatory requirements.

### Specifications

#### Materials

|                  |                                   |
|------------------|-----------------------------------|
| Filter Material: | Glass Fiber Fleeces               |
| Support fleece:  | Polypropylene                     |
| Core:            | Polypropylene                     |
| End caps:        | Polypropylene                     |
| O-Rings:         | Silicone (optional EPDM or Viton) |

#### Retention Rates

0.65 µm, 1.2 µm, 3 µm

#### Available Sizes | Filtration Area

##### Cartridges

|        |     |   |
|--------|-----|---|
| Size 1 | 10" | 0.6 m <sup>2</sup>   6 ft <sup>2</sup>  |
| Size 2 | 20" | 1.2 m <sup>2</sup>   12 ft <sup>2</sup> |
| Size 3 | 30" | 1.8 m <sup>2</sup>   18 ft <sup>2</sup> |

##### Capsules | Mini Cartridges

|        |  |
|--------|--|
| Size 7 | 0.05 m <sup>2</sup>   0.5 ft <sup>2</sup>                  |
| Size 8 | 0.1 m <sup>2</sup>   1 ft <sup>2</sup>                     |
| Size 9 | 0.2 m <sup>2</sup>   2 ft <sup>2</sup>                     |
| Size 0 | 0.45 m <sup>2</sup>   5 ft <sup>2</sup><br>(only Capsules) |

#### Available Adapters Cartridges

21, 25, 27, 28

#### Available Connectors Capsules

SS, SO, OO

#### Operating Parameters

|                                       |   |
|---------------------------------------|---|
| Max. Allowable Differential Pressure: | 5 bar   75 psi at 20 °C (Cartridges)              |
|                                       | 4 bar   58 psi at 20 °C (Capsules)                |
|                                       | 2 bar   29 psi at 80 °C (Cartridges and Capsules) |
| Max. Allowable Back Pressure:         | 2 bar   29 psi at 20 °C                           |

# Depth Filter Cartridges

## Specifications

### Extractables

Sartopure GF2 cartridges and capsules meet, or exceed the requirements for WFI quality standards set by the current USP.

### Regulatory Compliance

Non pyrogenic according to USP Bacterial Endotoxins

Pass USP Plastic Class VI Test

Non fiber releasing according to 21 CFR

### Sterilization

#### In-Line Steam Sterilization

134 °C, 20 min. at max differential pressure of 0.5 bar | 7 psi

#### Note:

Capsules cannot be in-line steam sterilized!

#### Autoclaving

134 °C, 2 bar | 29 psi, 30 min

#### Sterilization Cycles

In-Line Sterilization: Min. 25

(only cartridges)

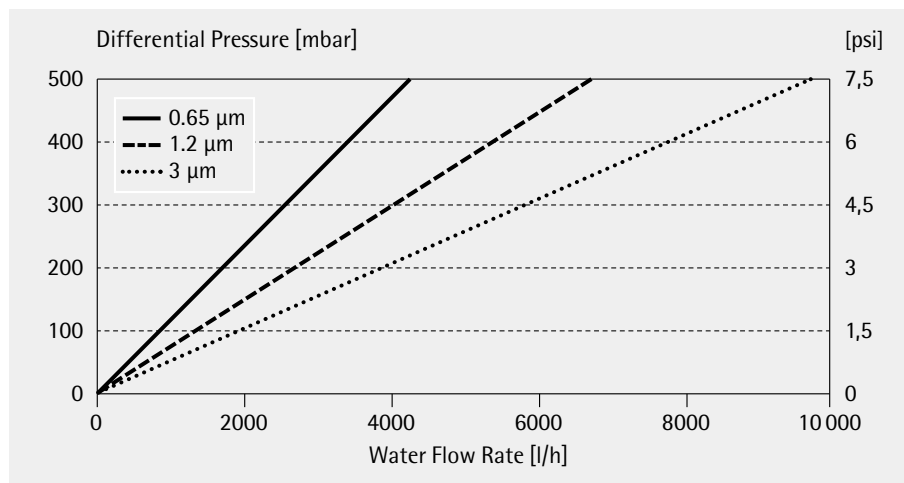
Autoclaving: Min. 25

#### Technical References

#### Validation Guide:

SPK 5717-e

Water Flow Rates for Sartopure GF2 10" Standard Cartridges 0.65 µm, 1.2 µm, 3 µm



## Order Information

| Order Code | Pore Size [µm] |
|------------|----------------|
|------------|----------------|

### Cartridges:

|           |      |
|-----------|------|
| 557**05PX | 0.65 |
|-----------|------|

|           |     |
|-----------|-----|
| 557**03PX | 1.2 |
|-----------|-----|

|           |   |
|-----------|---|
| 557**02PX | 3 |
|-----------|---|

### Mini Cartridges:

|                 |      |
|-----------------|------|
| 5571505PX-----B | 0.65 |
|-----------------|------|

|                 |     |
|-----------------|-----|
| 5571503PX-----B | 1.2 |
|-----------------|-----|

|                 |   |
|-----------------|---|
| 5571502PX-----B | 3 |
|-----------------|---|

### Capsules:

|                  |      |
|------------------|------|
| 5571305PX--**--# | 0.65 |
|------------------|------|

|                  |     |
|------------------|-----|
| 5571303PX--**--# | 1.2 |
|------------------|-----|

|                  |   |
|------------------|---|
| 5571302PX--**--# | 3 |
|------------------|---|

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