# LPP The Most Economical PP Filter Cartridge for Prefiltration

LPP filter cartridges are constructed of polypropylene fine fiber, featuring high flow rates and high dirt holding capacity. They are the most economical and efficient prefilters in biopharmaceutical industry, removing most particulate and colloidal contaminants. These filters can be personalized according to your specific fluids and processes, such as pore size and other characteristics, improving filtration efficiency and reducing filtration costs.

## Application

- Active Pharmaceutical Ingredient
- Cell Culture Medium
- Ophthalmic Solution
- Plasma Fractionation
- Parenterals(Large Volume Parenterals, Small Volume Parenterals)
- Lyophilized Powder
- Vaccines

## Features and Benefits

- Superior dirt-holding capacity
- High flow rates
- Broad chemical compatibility

## Quality

- Cartridges produced in a controlled environment
- Manufactured according to ISO9001 certified Quality Management System

## Specification

| | |
|---|---|
| Filter Media | PP |
| Support | PP |
| Core, Cage and Drainage | PP |
| End Caps | PP |
| O-rings/Gasket | Silicone/EPDM/Viton |
| Sealing Technology | Thermal Bonding, No Adhesives |

## Dimensions

| | |
|---|---|
| Diameter | 68mm |
| Length | 5 inch, 10 inch, 20 inch, 30 inch, 40 inch |

## Filtration Area

≥ 0.41m$^2$ (4.4ft$^2$) per 10-inch cartridge

## Pore Size, μm

0.1, 0.22, 0.45, 0.65, 1.0, 3.0, 5.0, 10, 20

## Maximum Differential Pressure

Forward: 4.2 bar @ 23℃; 1.5 bar @ 85℃

## Particle Removal Efficiency (%)

⩾ 80

## Extractables

⩽ 50 mg per autoclaved 10-inch cartridge after 24-h soak in purified water at controlled room temperature.

## Toxicity

Component materials meet GB/T 14233.2<2005> of Chinese National Standard for Safety Tests.

## TOC

< 500 ppb after a water flush of 60 liters per 10-inch cartridge.

## Sterilization

Support steam-in-place sterilization or autoclave at 123℃.

## Oxidizable Substances

Meets the criteria of Chinese Pharmacopoeia 2010, volume Ⅱ for purified water.

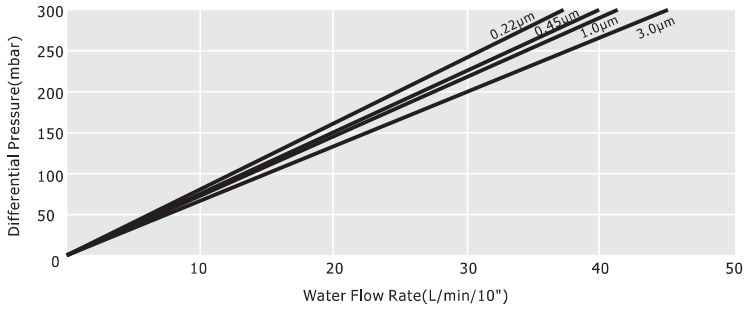
## Bacterial Endotoxins

< 0.25 EU/ml as determined by the LAL test.

## Maximum Operating Temperature

A: PP <60 ℃ (140℉)
B: PP with stainless steel lined end cap <85℃ (185℉)
C: PP with stainless steel lining <95℃ (203℉)

## Typical Liquid Flow Rate@23 ℃




## Ordering Information

| LP | P | 100 | C | 10 | S | A |
|---|---|---|---|---|---|---|

| [Code] | [ Media ] |
|---|---|
| P | PP |

| [Code] | [Rating] |
|---|---|
| 010 | 0.1μm |
| 022 | 0.22μm |
| 045 | 0.45μm |
| 065 | 0.65μm |
| 100 | 1.0μm |
| 300 | 3.0μm |
| 500 | 5.0μm |
| 01K | 10μm |
| 02K | 20μm |

| [Code] | [End Cap Configuration] |
|---|---|
| A | 222/Fin |
| B | 222/Flat |
| C | 226/Fin |
| D | 226/Flat |
| E | DOE |

| [Code] | [Length] |
|---|---|
| 05 | 5inch |
| 10 | 10inch |
| 20 | 20inch |
| 30 | 30inch |
| 40 | 40inch |

| [Code] | [Seal] |
|---|---|
| S | Silicone |
| E | EPDM |
| V | Viton |

| [Code] | [Support] |
|---|---|
| A | PP |
| B | PP with stainless steel endcap |
| C | PP with stainless steel lining |