

PureFlo® Filter Cup (Table Top Filtration)

Vacuum Filter Cups: Multi-stack, Single pass.

PureFlo® Filter Cups are a convenient disposable solution for quick and easy bench top filtration of liquids. The filter cups are available in two sizes and in 14 different filtration media for use in a wide variety of applications. The filter cups are ideal for clarifying or sterilizing small volumes of tissue culture media, buffers, dilute acids and bases, alcohols, and solvent solutions.

The tapered walls and compact profile allow multiple filter cups to be stacked in order to perform multiple filtration steps at once. This also allows for compact storage saving valuable lab space.

The filter cup base can be supplied with a variety of stoppers to fit standard size flask openings and can be supplied with or without a vacuum port for use with standard Erlenmeyer or Büchner flasks. When using vacuum, the vacuum should be applied gradually to no more than 16" Hg (and no more than the vacuum rating of the flask).

Filtration media is thermally bonded to the filter cup creating an integral seal. The cups and base are constructed of polypropylene for broad chemical compatibility or other common plastics. To determine the most appropriate materials of construction for your application, consult a chemical resistance guide or contact your local ZenPure representative before use.



Applications

| | |
|-----------------------------------------------------|-------------------------------------------------|
| Pharmaceutical Products Analysis | Combinatorial Chemistry |
| Sample and Small Batch Clarification and Filtration | Sample and Small Batch Preparation and Clean-Up |
| Purification and Concentration | Filtration of Aqueous and Organic Solutions |
| Environmental Monitoring and Analysis | Sterile Filtration |
| Laboratory | Food and Beverage |

Glass Flask not included

Specifications

| | | |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Materials of Construction: | Cup Material: PP (standard), Polyethylene, Gamma Stabilized PP, and Nylon Membrane: 14 options (See ordering guide) | |
| Fitting Connections: | Vacuum Inlet: 3/8" Hose Barb Vacuum Inlet or none Stopper Sizes : 5, 6, 7, 8, 9, 10 | |
| Nominal Dimensions: | Diameter: A size :79 mm, Top Capacity: A size :175 mL | B size: 106 mm, Top B size: 350 mL |
| Effective Filtration Area: | A size: 63 mm in diameter, 31 cm ² filter area B size: 90 mm in diameter, 60 cm ² filter area | |
| Available Ratings: | 0.05- 150um (See ordering guide) | |
| Operating Conditions: (No Reverse direction) | Maximum Operating Vacuum Pressure: -16" Hg (-7.8 PSI) Maximum Operating Temperature: PP & Gamma PP 80°C/176°F, HDPE 60°C/140°F | |
| Autoclavable & Sanitizable: | Cups can be autoclaved 1 time at 123°C for 60 minutes or chemically sanitized by soaking common sanitizing agents or hot water at 80°C (no reverse pressure should be applied). | |
| Regulatory Compliance: | The cups are constructed with polypropylene resins and filtration media in compliance with 21CFR Part 177 of the US Code of Federal Regulations and USP Class VI Biological Test for Plastics. | |

PureFlo® Filter Cup

PureFlo Filter Cup Ordering Guide

| PureFlo Filter Cup | Filter Media | Pore Sizes (Micron) | Cup Size | Cup Material | Options |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| FC = Filter Cup | A = Cellulose Acetate CN = Charged Nylon UE = Polyethylene F = PTFE Hydrophobic G =Glass Fiber HF = Hydrophilic PTFE M = PP Membrane N = Nylon NS = Nylon Screen P = PP Media S = PES SS = Stainless Steel Screen TS = Polyester Screen | | A = 175ml B = 350ml | P = Polypropylene (standard) E = Polyethylene (UE Media Only) GP = Gamma stabilized PP N = Nylon | A Size Options |
| | | Pick From Pore Size | | | Blank = 25ea/Box |
| | | | | | -10 = Individually bagged (12 /box) |
| | | | | | -10ETO = Individually bagged Ethylene oxide sterilization (6 /box) |
| | | | | | B Size Options |
| | | | | | Blank = 15ea/Box |
| | | | | | -10 = Individually bagged (10 /box) |
| | | | | | -10ETO = Individually bagged Ethylene oxide sterilization (6 /box) |
| Example – 25 Filter Cups with 1.0 Micron Polypro Media Filter, 175ml size Cup, PP material would be FCP010AP | | | | | |

| Pore Sizes (Micron) | | | | | | | | | | | | | |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------|
| Cellulose Acetate (A) | Charged Nylon (CN) | Polyethylene (UE) | Glass Fiber (G) | PTFE (F) Hydrophobic | Hydrophilic PTFE (HF) | Polypro Membrane (M) | Nylon (N) | Natural Glass Fiber (NG) | Nylon Screen (NS) | Polypro Media (P) | PES (S) | Stainless Steel Screen (SS) | Polyester Screen (TS) |
| 010 = 0.10 020 = 0.20 045 = 0.45 065 = 0.65 080 = 0.80 120 = 1.20 | 005 = 0.05 010 = 0.10 020 = 0.20 045 = 0.45 065 = 0.65 080 = 0.80 120 = 1.20 | 005 = 0.05 010 = 0.1 020 = 0.20 045 = 0.45 065 = 0.65 100 = 1.0 | 004 = 0.45 005 = 0.5 010 = 1.0 030 = 3.0 050 = 5.0 100 = 10 200 = 20 300 = 30 | 010 = 0.10 020 = 0.20 045 = 0.45 100 = 1.0 300 = 3.0 500 = 5.0 999 = 10 | 010 = 0.10 020 = 0.20 045 = 0.45 100 = 1.0 300 = 3.0 500 = 5.0 999 = 10 | 010 = 0.1 020 = 0.2 | 005 = 0.05 010 = 0.10 020 = 0.20 045 = 0.45 065 = 0.65 080 = 0.80 120 = 1.20 | 005 = 0.5 010 = 1.0 030 = 3.0 050 = 5.0 | 070 = 7 100 = 10 200 = 20 400 = 40 600 = 60 10X = 100 20X = 200 | 003 = 0.3 006 = 0.6 010 = 1.0 020 = 0.20 030 = 3.0 050 = 5.0 070 = 7.0 100 = 10 200 = 20 300 = 30 400 = 40 500 = 50 700 = 70 | 005 = 0.05 010 = 0.10 020 = 0.20 045 = 0.45 065 = 0.65 080 = 0.80 120 = 1.20 | 018 = 18 020 = 20 030 = 30 | 200 = 20 300 = 30 400 = 40 600 = 60 730 = 73 |
| | | | Best for Gas Applications | | | | | Best for Liquid Applications | | | | | |



| Stopper Sizes |
|-------------------------------------|
| Size 5: 23mm at bottom/26mm at top |
| Size 6: 26mm at bottom/32mm at top |
| Size 7: 30mm at bottom/37mm at top |
| Size 8: 33mm at bottom/40mm at top |
| Size 9: 37mm at bottom/45mm at top |
| Size 10: 42mm at bottom/50mm at top |
| Base O-Ring Size: AS-140 |



PureFlo Filter Base Ordering Guide

| Filter Cup Base | Base Type | Cup Material | Stopper Size | Stopper Materials | O-Ring Materials |
|-----------------------------|------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| FS = Filter Cup Base | 0 = Without hose barb | P = Polypropylene (standard) BP = Black PP GP = Gamma stabilized PP | 0 = No Stopper 5 = Size 5 6 = Size 6 7 = Size 7 8 = Size 8 9 = Size 9 10 = Size 10 | 0 = No Stopper S = Silicone (Standard) N = Buna N E = EPDM V = Viton | 0 = No O-ring S = Silicone (Standard) N = Buna N E = EPDM V = Viton |
| | 1 = With hose barb | E = Polyethylene N = Nylon | | | |

Example – Filter Cup base without hose barb, with PP material, Size 5 SIL stopper, SIL O-Ring would be **FS0P5SS**

Filter Base Spare Parts

| Filter Cup Base Spare Part Order | | |
|-------------------------------------------------------------------------------|---------------------|--------------------------------|
| Type | Size | Material |
| FS-RS = for rubber stopper | 5 = Size 5 | S = Silicone (Standard) |
| | 6 = Size 6 | N = Buna N |
| | 7 = Size 7 | E = EPDM |
| | 8 = Size 8 | V = Viton |
| | 9 = Size 9 | |
| | 10 = Size 10 | |
| FS-OR = for O-Ring on the Stem | | |
| Example: FS-RS-5-S = Filter cup base rubber stopper, Silicone material | | |
| Example: FS-OR-S = Filter cup base O-Rings, Silicone material | | |