

1 LLG-Syringe Filters SPHEROS

Cost-effective syringe filters for filtration of a broad variety of solvents and aqueous or inorganic solutions. These syringe filters cover most applications in HPLC, pharmaceutical, environmental, biotechnology, and food and beverage testing laboratories.

- Robust Polypropylene housing
- Multifunctional syringe filters with female Luer-Lock inlet and male Luer-Slip outlet
- Suitable for all syringes with Luer connection
- Sterile or non-sterile
- Sterile products in individual hard blister packaging and dispenser box



2 3 LLG Syringe Filters SPHEROS, Cellulose Acetate

Hydrophilic membrane for filtration of aqueous liquids. Low protein binding capacity. Especially suitable for biological macromolecules, water soluble oligomers and polymers. With female Luer-Lock inlet and male Luer-Slip outlet. Sterile products in individual hard blister packaging and dispenser box.

| Filter diam. | Pore size | Housing | Sterile | PK | Cat. No. |
|--------------|-----------|---------|---------|-----|-----------|
| mm | µm | | | | |
| 13 | 0.22 | PP, red | - | 100 | 6.272 802 |
| 13 | 0.45 | PP, red | - | 100 | 6.272 803 |
| 25 | 0.22 | PP, red | - | 50 | 6.272 804 |
| 25 | 0.22 | PP, red | - | 500 | 4.668 145 |
| 25 | 0.45 | PP, red | - | 50 | 6.272 805 |
| 25 | 0.45 | PP, red | - | 500 | 4.668 146 |
| 13 | 0.22 | PP, red | + | 100 | 6.272 806 |
| 13 | 0.45 | PP, red | + | 100 | 6.272 807 |
| 25 | 0.22 | PP, red | + | 45 | 6.272 808 |
| 25 | 0.45 | PP, red | + | 45 | 6.272 809 |

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4 LLG Syringe Filters SPHEROS, PES

Hydrophilic membrane for aqueous and polar organic solutions with low protein binding capacity. Especially suited for sterile filtration of solutions and media in cell culture as well as for ion chromatography and organic acids. With female Luer-Lock inlet and male Luer-Slip outlet. Sterile filters individually packed in a hard blister package.

| Filter diam. | Pore size | Housing | Sterile | PK | Cat. No. |
|--------------|-----------|-----------|---------|----|-----------|
| mm | µm | | | | |
| 25 | 0.22 | PP, green | - | 50 | 6.272 640 |
| 25 | 0.45 | PP, green | - | 50 | 6.272 641 |
| 25 | 0.22 | PP, green | + | 45 | 6.272 642 |
| 25 | 0.45 | PP, green | + | 45 | 6.272 643 |

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5 LLG Syringe Filters SPHEROS, Nylon

Hydrophilic membrane for filtration of aqueous and organic/aqueous liquids with medium polarity. Very good chemical resistance to esters, alkaline solutions and alcohols. With female Luer-Lock inlet and male Luer-Slip outlet.

| Filter diam. | Pore size | Housing | Sterile | PK | Cat. No. |
|--------------|-----------|----------|---------|-----|-----------|
| mm | µm | | | | |
| 13 | 0.22 | PP, pink | - | 100 | 6.272 810 |
| 13 | 0.45 | PP, pink | - | 100 | 6.272 811 |
| 25 | 0.22 | PP, pink | - | 50 | 6.272 812 |
| 25 | 0.22 | PP, pink | - | 500 | 4.668 147 |
| 25 | 0.45 | PP, pink | - | 50 | 6.272 813 |
| 25 | 0.45 | PP, pink | - | 500 | 4.668 148 |

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6 LLG Syringe Filters SPHEROS, PTFE

Hydrophobic membrane for filtration of non-polar liquids and gases. Very good chemical resistance to all kinds of solvents and alkaline solutions. With female Luer-Lock inlet and male Luer-Slip outlet.

| Filter diam. | Pore size | Housing | Sterile | PK | Cat. No. |
|--------------|-----------|-----------|---------|-----|-----------|
| mm | µm | | | | |
| 13 | 0.22 | PP, white | - | 100 | 6.272 816 |
| 13 | 0.45 | PP, white | - | 100 | 6.272 817 |
| 25 | 0.22 | PP, white | - | 50 | 6.272 818 |
| 25 | 0.22 | PP, white | - | 500 | 4.668 149 |
| 25 | 0.45 | PP, white | - | 50 | 6.272 819 |
| 25 | 0.45 | PP, white | - | 500 | 4.668 150 |

6



LLG-Syringe Filters

We offer a line of syringe filters especially designed to provide efficient filtration of a broad variety of fluids, solvents, aqueous or inorganic solutions. Our syringe filters cover most applications in HPLC, pharmaceutical, environmental, biotechnology and food and beverage testing laboratories.

- Housing injected in Polypropylene or MABS
- Multifunctional Syringe filters equipped with Luer-Lock connections on both sides or female Luer-Lock input and male Luer-Slip output
- Suitable for all syringes with Luer connection
- Pre-sterilised or non-sterile
- Sterile products in individual hard blister
- Superior pressure stability

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1 2 3 LLG Syringe Filter CA, Cellulose acetate

Hydrophilic membrane for filtration of aqueous solutions.

This membrane features excellent shape stability in aqueous solutions and a very low binding capacity for proteins (21 µg per 25 mm Filter). Ideal for use with biological macromolecules, water soluble oligomers and polymers. With Luer-Lock input and Luer-Lock or Luer-Slip output.

| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|-----------------------|-----|------------------|
| | mm | µm | | | |
| non sterile | 13 | 0.20 | Acrylic, blue | 500 | 9.055 500 |
| non sterile | 13 | 0.45 | Acrylic, yellow | 500 | 9.055 502 |
| non sterile | 13 | 0.80 | Acrylic, green | 500 | 9.055 504 |
| non sterile | 25 | 0.20 | Acrylic, blue | 500 | 9.055 501 |
| non sterile | 25 | 0.45 | Acrylic, yellow | 500 | 9.055 503 |
| non sterile | 25 | 0.80 | Acrylic, green | 500 | 7.970 389 |
| sterile | 13 | 0.20 | Acrylic, blue | 50 | 9.055 510 |
| sterile | 13 | 0.45 | Acrylic, yellow | 50 | 9.055 512 |
| sterile | 13 | 0.80 | Acrylic, green | 50 | 6.285 694 |
| sterile | 25 | 0.20 | Acrylic, blue | 50 | 9.055 511 |
| sterile | 25 | 0.45 | Acrylic, yellow | 50 | 9.055 513 |
| sterile | 25 | 0.80 | Acrylic, green | 50 | 6.285 699 |
| sterile | 25 | 0.20 | Acrylic, transparent* | 50 | 6.285 703 |
| sterile | 25 | 0.45 | Acrylic, transparent* | 50 | 6.285 704 |
| sterile | 25 | 0.80 | Acrylic, transparent* | 50 | 6.285 705 |

*Luer-Slip output

4 LLG Syringe Filter NY, Nylon/Polyamide

This is a rather hydrophilic membrane; it is recommended for filtration of aqueous and organic/aqueous medium polar liquids. Excellent chemical compatibility with esters, bases and alcohols. With Luer-Lock input and Luer-Slip output.

| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|---------|-----|------------------|
| | mm | µm | | | |
| non sterile | 13 | 0.22 | PP | 500 | 9.055 520 |
| non sterile | 13 | 0.45 | PP | 500 | 9.055 522 |
| non sterile | 25 | 0.22 | PP | 500 | 9.055 521 |
| non sterile | 25 | 0.45 | PP | 500 | 9.055 523 |
| sterile | 25 | 0.22 | Acrylic | 50 | 6.285 707 |
| sterile | 25 | 0.45 | Acrylic | 50 | 6.285 708 |

5 LLG Syringe Filter PE, Polyethylene

Universal filter membrane for all analytical requirements. For aqueous and aggressive organic solvent filtration. Wide application in sample preparation, Ion chromatography. With Luer-Lock input and Luer-Slip output.

| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|---------|-----|------------------|
| | mm | µm | | | |
| non sterile | 13 | 0.2 | PP | 500 | 9.055 540 |
| non sterile | 13 | 0.5 | PP | 500 | 9.055 542 |
| non sterile | 25 | 0.2 | PP | 500 | 9.055 541 |
| non sterile | 25 | 0.5 | PP | 500 | 9.055 543 |

1 LLG Syringe Filter RC, Regenerated cellulose

Hydrophilic membrane features very low adsorption. It is recommended for filtration of aqueous and organic/aqueous liquids. For filtration of polar and medium polar liquids. With Luer-Lock input and Luer-Slip output.

| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|---------|-----|-----------|
| | mm | µm | | | |
| non sterile | 13 | 0.20 | PP | 500 | 9.055 530 |
| non sterile | 13 | 0.45 | PP | 500 | 9.055 532 |
| non sterile | 25 | 0.20 | PP | 500 | 9.055 531 |
| non sterile | 25 | 0.45 | PP | 500 | 9.055 533 |



2 LLG Syringe Filter PTFE, Polytetrafluorethylene

Hydrophobic membrane. Ideal for filtration of non-polar liquids and gases. It is very resistant to various solvents as well as acids and bases. With Luer-Lock input and Luer-Slip output.

| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|---------|-----|-----------|
| | mm | µm | | | |
| non sterile | 13 | 0.20 | PP | 500 | 7.970 402 |
| non sterile | 13 | 0.45 | PP | 500 | 7.970 385 |
| non sterile | 25 | 0.20 | PP | 500 | 9.055 535 |
| non sterile | 25 | 0.45 | PP | 500 | 6.255 331 |



3 LLG Syringe Filter PVDF, Polyvinylidene fluoride

Hydrophilic membrane for aqueous polar and light unpolar solutions. Very low protein binding High flow rates ideal for use with biological macromolecules, water soluble oligomers and polymers. With Luer-Lock input and Luer-Slip output.

| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|---------|-----|-----------|
| | mm | µm | | | |
| non sterile | 13 | 0.20 | PP | 500 | 7.970 258 |
| non sterile | 13 | 0.45 | PP | 500 | 9.055 534 |
| non sterile | 25 | 0.20 | PP | 500 | 7.970 387 |
| non sterile | 25 | 0.45 | PP | 500 | 7.970 286 |
| sterile | 13 | 0.20 | Acrylic | 50 | 6.285 697 |
| sterile | 13 | 0.45 | Acrylic | 50 | 6.285 698 |
| sterile | 25 | 0.20 | Acrylic | 50 | 6.258 299 |
| sterile | 25 | 0.45 | Acrylic | 50 | 6.285 702 |



4 LLG Syringe Filter GF, Glass-fibre

Hydrophilic membrane suitable for pre-filtration. They can be used for solutions with high particulate loads or for highly viscous solutions (e.g. soil samples, fermentation broths) either alone or in combination with other filters. With Luer-Lock input and Luer-Slip output.

| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|---------|-----|-----------|
| | mm | µm | | | |
| non sterile | 25 | 0.7 | PP | 500 | 9.055 550 |
| non sterile | 25 | 1.0 | PP | 500 | 9.055 551 |
| non sterile | 25 | 1.2 | PP | 500 | 9.055 552 |
| non sterile | 25 | 3.1 | PP | 500 | 9.055 553 |



5 Syringe filters Puradisc™ PTFE

Hydrophobic membrane. Ideal for filtration of non-polar liquids and gases.

Whatman

| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|-----------|-----|-----------|
| | mm | µm | | | |
| non sterile | 4 | 0.20 | PP | 100 | 9.951 252 |
| non sterile | 4 | 0.45 | PP | 100 | 9.951 253 |
| non sterile | 13 | 0.10 | PP | 100 | 9.951 255 |
| non sterile | 13 | 0.20 | PP | 100 | 9.951 256 |
| non sterile | 13 | 0.20 | PP w. tip | 50 | 9.951 249 |
| non sterile | 13 | 0.45 | PP | 100 | 9.951 257 |
| non sterile | 13 | 0.45 | PP w. tip | 50 | 9.951 250 |
| non sterile | 13 | 1.00 | PP | 100 | 9.951 258 |
| non sterile | 25 | 0.20 | PP | 50 | 9.951 069 |
| non sterile | 25 | 0.20 | PP | 200 | 9.951 070 |
| non sterile | 25 | 0.45 | PP | 50 | 9.951 071 |
| non sterile | 25 | 0.45 | PP | 200 | 9.951 072 |
| non sterile | 25 | 1.00 | PP | 50 | 9.951 073 |



Filtration/Syringe filters

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1 Syringe filters Puradisc™ Nylon

Hydrophilic membrane; it is recommended for filtration of aqueous and organic/aqueous medium polar liquids.

Whatman

| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|---------|-----|------------------|
| | mm | µm | | | |
| non sterile | 4 | 0.20 | PP | 100 | 9.951 265 |
| non sterile | 4 | 0.45 | PP | 100 | 9.951 266 |
| non sterile | 13 | 0.20 | PP | 100 | 9.951 268 |
| non sterile | 13 | 0.45 | PP | 100 | 9.951 269 |
| non sterile | 25 | 0.20 | PP | 50 | 9.951 065 |
| non sterile | 25 | 0.20 | PP | 200 | 9.951 066 |
| non sterile | 25 | 0.45 | PP | 50 | 9.951 067 |
| non sterile | 25 | 0.45 | PP | 200 | 9.951 068 |
| sterile | 4 | 0.20 | PP | 50 | 9.951 264 |

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2 Syringe filters Puradisc™ Polyethersulfone (PES)

Hydrophilic membrane for aqueous and light organic solutions with a low binding capacity for proteins.

Whatman

| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|---------|-----|------------------|
| | mm | µm | | | |
| non sterile | 13 | 0.20 | PP | 100 | 9.951 239 |
| non sterile | 13 | 0.45 | PP | 100 | 9.951 241 |
| non sterile | 25 | 0.20 | PP | 200 | 9.951 063 |
| non sterile | 25 | 0.45 | PP | 200 | 9.951 064 |
| sterile | 13 | 0.20 | PP | 50 | 9.951 238 |
| sterile | 13 | 0.45 | PP | 50 | 9.951 240 |
| sterile | 25 | 0.20 | PP | 50 | 9.951 061 |
| sterile | 25 | 0.45 | PP | 50 | 9.951 062 |

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3 Syringe filters Puradisc™ Polypropylene

Suitable for HPLC sample filtration (water-based) and aggressive water solutions such as acids and alkalis.

Whatman

| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|---------|-----|------------------|
| | mm | µm | | | |
| non sterile | 13 | 0.20 | PP | 100 | 9.951 245 |
| non sterile | 13 | 0.45 | PP | 100 | 9.951 246 |
| non sterile | 25 | 0.20 | PP | 50 | 9.951 074 |
| non sterile | 25 | 0.20 | PP | 200 | 9.951 075 |
| non sterile | 25 | 0.45 | PP | 50 | 9.951 076 |
| non sterile | 25 | 0.45 | PP | 200 | 9.951 077 |

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4 Syringe filters Puradisc™ FP30

For aqueous solutions. Polycarbonate (PC) housing. Membrane cellulose nitrate (CN) or cellulose acetate (CA). Filtration of protein-containing solutions with minimal sample loss.

Whatman

| Type | Filter diam. | Pore size | Housing | Membrane | PK | Cat. No. |
|-------------|--------------|-----------|---------|----------|-----|------------------|
| | mm | µm | | | | |
| non sterile | 30 | 0.20 | PC | CA | 50 | 9.049 934 |
| non sterile | 30 | 0.20 | PC | CA | 100 | 9.603 585 |
| non sterile | 30 | 0.20 | PC | CA | 500 | 9.603 584 |
| non sterile | 30 | 0.20 | PC* | CA | 500 | 9.049 919 |
| non sterile | 30 | 0.45 | PC | CA | 50 | 9.049 932 |
| non sterile | 30 | 0.45 | PC | CA | 100 | 9.049 927 |
| non sterile | 30 | 0.45 | PC | CA | 500 | 9.049 933 |
| non sterile | 30 | 0.80 | PC | CA | 50 | 9.049 936 |
| non sterile | 30 | 0.80 | PC | CA | 500 | 9.049 920 |
| non sterile | 30 | 1.20 | PC | CA | 50 | 9.049 937 |
| non sterile | 30 | 1.20 | PC | CA | 500 | 9.049 925 |
| non sterile | 30 | 5.00 | PC | CN | 50 | 9.049 931 |
| non sterile | 30 | 5.00 | PC | CN | 100 | 9.049 926 |
| non sterile | 30 | 5.00 | PC | CN | 500 | 9.603 581 |
| sterile | 30 | 0.20 | PC | CA | 50 | 9.049 913 |
| sterile | 30 | 0.20 | PC* | CA | 50 | 9.049 917 |
| sterile | 30 | 0.45 | PC | CA | 50 | 9.049 912 |
| sterile | 30 | 0.80 | PC | CA | 50 | 9.049 915 |
| sterile | 30 | 1.20 | PC | CA | 50 | 9.049 916 |
| sterile | 30 | 5.00 | PC | CN | 50 | 9.049 911 |
| sterile | 30 | 0.20 | PC | PTFE | 50 | 9.049 918 |

* with Luer-Lock outlet

1 2 Syringe filters GD/X®

Whatman GD/X syringe filters are the perfect solution for samples with high viscosity or samples that contain particles. Four filter layers decrease clogging and therefore filter exchange during processing is avoided. These filters allow 3 to 7 times higher throughput than traditional types.

Whatman

| Type | Filter diam. | Pore size | Housing | Membrane | PK | Cat. No. |
|-------------|--------------|-----------|---------|----------|------|-----------|
| | mm | µm | | | | |
| non sterile | 25 | 0.20 | PP | Nylon | 150 | 9.056 820 |
| non sterile | 25 | 0.45 | PP | Nylon | 150 | 9.056 821 |
| non sterile | 13 | 0.20 | PP | PVDF | 150 | 6.283 543 |
| non sterile | 25 | 0.20 | PP | PVDF | 150 | 9.056 822 |
| non sterile | 25 | 0.45 | PP | PVDF | 150 | 9.056 823 |
| non sterile | 25 | 0.20 | PP | RC | 150 | 9.056 807 |
| non sterile | 25 | 0.45 | PP | RC | 150 | 9.056 809 |
| non sterile | 25 | 0.45 | PP | RC | 1500 | 9.056 810 |
| non sterile | 25 | 0.20 | PP | PTFE | 150 | 6.073 051 |
| non sterile | 25 | 0.45 | PP | PTFE | 150 | 6.204 535 |
| non sterile | 13 | 0.20 | PP | CA | 150 | 6.225 246 |
| non sterile | 13 | 0.45 | PP | CA | 150 | 7.632 839 |
| non sterile | 25 | 0.20 | PP | CA | 150 | 7.630 830 |
| non sterile | 25 | 0.45 | PP | CA | 150 | 6.800 153 |

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3 Inorganic membrane syringe filters, Anotop®

The Anopore® inorganic membrane consists of high-purity aluminium oxide and can be used for a wide range of applications. This unique material has a precise, non-deformable, honeycomb structure with a relatively consistent pore size that guarantees very efficient particle retention. In addition, the membrane has a low protein binding capacity, minimal autofluorescence, is non-toxic and supports cellular growth.

Whatman

- Anotop® 10 Plus/25 Plus contains a glass microfiber prefilter
- Housing: PP
- Extractable materials: low
- Inlet connection: Female luer lock
- Outlet connection: Male slip luer

Housing diameter: 10 mm
 Housing material: PP
 Extractable substances: low
 Retained volume: < 20 µl

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| Type | Residual volume | Filter diam. | Pore size | Membrane | PK | Cat. No. |
|-------------|-----------------|--------------|-----------|------------|-----|-----------|
| | ml | mm | µm | | | |
| non-sterile | 0,02 | 1 | 0.02 | Anotop® 10 | 50 | 9.951 186 |
| non-sterile | 0,02 | 10 | 0.10 | Anotop® 10 | 50 | 9.951 187 |
| non-sterile | 0,02 | 10 | 0.20 | Anotop® 10 | 50 | 9.951 188 |
| non-sterile | 0,15 | 25 | 0.02 | Anotop® 25 | 50 | 9.951 198 |
| non-sterile | 0,15 | 25 | 0.10 | Anotop® 25 | 50 | 9.951 199 |
| non-sterile | 0,15 | 25 | 0.20 | Anotop® 25 | 50 | 9.951 200 |
| non-sterile | 0,15 | 25 | 0.20 | Anotop® 25 | 200 | 9.951 201 |
| sterile | 0,02 | 10 | 0.02 | Anotop® 10 | 50 | 9.951 189 |
| sterile | 0,02 | 10 | 0.10 | Anotop® 10 | 50 | 9.951 190 |
| sterile | 0,02 | 10 | 0.20 | Anotop® 10 | 50 | 9.951 191 |
| sterile | 0,15 | 25 | 0.02 | Anotop® 25 | 50 | 9.951 202 |
| sterile | 0,15 | 25 | 0.10 | Anotop® 25 | 50 | 9.951 203 |
| sterile | 0,15 | 25 | 0.20 | Anotop® 25 | 50 | 9.951 204 |

Further products can be found in our online shop.



Filtration/Syringe filters

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1 Syringe filters Spartano®, Regenerated cellulose

Versatile use - ready-to-use filter units with a hydrophilic, low protein-binding membrane made of regenerated cellulose. First class chemical resistance against the usual aqueous and organic HPLC solvents

- Spartano® 13 and 30 are tested and certified for UV absorbance substances at wavelengths of 210 nm and 254 nm with water, methanol and acetonitrile;
- Spartano® 13 has an extremely low hold up volume; <10 µl, for optimal filtration

Whatman
Applications:

Ideal for HPLC sample preparation to achieve reproducible results. Carefully controlled manufacture guarantees lowest traces of UV- absorbing, extractable components.

| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|--------------|-----|-----------|
| | mm | µm | | | |
| non sterile | 13 | 0.20 | LLF/LM | 100 | 9.049 948 |
| non sterile | 13 | 0.20 | LLF/LM | 500 | 9.049 980 |
| non sterile | 13 | 0.20 | LLF/Mini-Tip | 100 | 9.049 943 |
| non sterile | 13 | 0.20 | LLF/Mini-Tip | 500 | 9.049 951 |
| non sterile | 13 | 0.45 | LLF/LM | 100 | 9.049 949 |
| non sterile | 13 | 0.45 | LLF/Mini-Tip | 100 | 9.049 944 |
| non sterile | 13 | 0.45 | LLF/Mini-Tip | 500 | 9.049 950 |
| non sterile | 30 | 0.20 | LLF/LM | 100 | 9.049 941 |
| non sterile | 30 | 0.20 | LLF/LM | 500 | 9.049 965 |
| non sterile | 30 | 0.45 | LLF/LM | 50 | 9.049 960 |
| non sterile | 30 | 0.45 | LLF/LM | 100 | 9.049 942 |
| non sterile | 30 | 0.45 | LLF/LM | 500 | 9.049 959 |

LLF = luer-lock female
LM = luer male

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2 Syringe filters, disposable, ReZist® PTFE

- Hydrophobic PTFE-membrane, laminated with polypropylene
- first class chemical resistance opposite to common organic HPLC solvents

Whatman
Application:

Filtration of aggressive solutions.
GF92 membrane to the prefiltration of loaded solutions.

| Type | Filter diam. | Pore size | Housing | Membrane | PK | Cat. No. |
|-------------|--------------|-----------|---------|----------|-----|-----------|
| | mm | µm | | | | |
| non sterile | 13 | 0.20 | PP* | PTFE | 100 | 9.049 981 |
| non sterile | 13 | 0.45 | PP* | PTFE | 100 | 9.049 982 |
| sterile | 30 | 0.20 | PP | PTFE | 50 | 9.049 955 |
| non sterile | 30 | 0.20 | PP | PTFE | 100 | 9.049 961 |
| non sterile | 30 | 0.20 | PP | PTFE | 500 | 9.049 990 |
| non sterile | 30 | 0.45 | PP | PTFE | 100 | 9.049 962 |
| non sterile | 30 | 0.45 | PP | PTFE | 500 | 9.049 991 |
| non sterile | 30 | 1.00 | PP | PTFE | 100 | 9.049 963 |
| non sterile | 30 | 1.00 | PP | PTFE | 500 | 9.049 992 |
| non sterile | 30 | 5.00 | PP | PTFE | 100 | 9.049 964 |
| non sterile | 30 | 5.00 | PP | PTFE | 500 | 9.049 993 |
| non sterile | 30 | | PP | GF92 | 100 | 9.049 996 |
| non sterile | 30 | | PP | GF92 | 500 | 9.049 997 |

*with Mini-Tip outlet

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3 Syringe filters, Minisart® High-Flow, PES

Housing MBS. Minisart® High Flow PES (Polyethersulfone) syringe filters for sterile filtration, particle removal and ultra-cleaning. Covers a wide pH range.

Sartorius Lab Instruments

These independent ready-to-use syringe filters with PES membrane filter feature excellent flow speed and high filterable volume. The Minisart® High Flow is a syringe filter for rapid volume sterilisation with maximum user convenience. Ready-to-use units, which offer flow rates at low inlet pressures, allow for a correspondingly rapid sterile filtration.

| Filter diam. | Pore size | Description | Colour | Sterile | PK | Cat. No. |
|--------------|-----------|----------------|------------|---------|-----|-----------|
| mm | µm | | | | | |
| 28 | 0.10 | Male Luer Lock | Dark Red | + | 50 | 9.049 866 |
| 28 | 0.22 | Male Luer Lock | Royal Blue | x | 50 | 6.261 787 |
| 28 | 0.22 | Male Luer Lock | Royal Blue | + | 50 | 9.049 129 |
| 28 | 0.22 | Male Luer Slip | Royal Blue | + | 50 | 6.201 927 |
| 28 | 0.22 | Male Luer Lock | Royal Blue | - | 500 | 9.049 130 |
| 28 | 0.22 | Male Luer Slip | Royal Blue | - | 500 | 6.252 364 |
| 28 | 0.45 | Male Luer Lock | Amber | + | 50 | 6.206 703 |
| 28 | 0.45 | Male Luer Lock | Amber | - | 500 | 6.201 960 |
| 28 | 0.45 | Male Luer Slip | Amber | x | 50 | 6.251 896 |
| 28 | 0.45 | Male Luer Slip | Amber | + | 50 | 9.049 865 |
| 28 | 0.45 | Male Luer Slip | Amber | - | 500 | 7.400 725 |

x = sterilization by gamma irradiation

Syringe filter Minisart® NML, SFAC

Housing MBS. SFCA/CA (Surfactant-free Cellulose Acetate) membrane. For sterile, particle free, ultrapure filtration of small volumes of liquid up to approx. 100 ml. Color coded and printed for easy membrane and pore size identification. With hydrophilic cellulose acetate membrane for minimum adsorption. Ready-to-use immediately. With female luer-lock inlet, male luer slip outlet.

Sartorius Lab Instruments

| Filter diam. | Pore size | Colour | Description | Sterile | PK | Cat. No. |
|--------------|-----------|--------|-----------------------|---------|-----|--------------------|
| mm | µm | | | | | |
| 28 | 0.20 | Blue | SFCA, Male Luer Lock* | + | 50 | 6.250 269 1 |
| 28 | 0.20 | Blue | SFCA, Male Luer Lock* | x | 50 | 6.224 111 |
| 28 | 0.20 | Blue | SFCA, Male Luer Lock* | - | 500 | 9.049 107 |
| 28 | 0.20 | Blue | SFCA, Male Luer Slip* | + | 50 | 9.604 009 |
| 28 | 0.20 | Blue | SFCA, Male Luer Slip* | - | 500 | 7.017 212 |
| 28 | 0.45 | Yellow | SFCA, Male Luer Lock* | + | 50 | 6.900 911 2 |
| 28 | 0.45 | Yellow | SFCA, Male Luer Lock* | x | 50 | 7.620 792 |
| 28 | 0.45 | Yellow | SFCA, Male Luer Lock* | - | 500 | 9.049 108 |
| 28 | 0.45 | Yellow | SFCA, Male Luer Slip* | + | 50 | 9.604 011 |
| 28 | 0.45 | Yellow | SFCA, Male Luer Slip* | - | 500 | 7.017 213 |
| 28 | 0.65 | Pink | SFCA, Male Luer Slip | + | 50 | 6.901 409 3 |
| 28 | 0.80 | Green | SFCA, Male Luer Lock | + | 50 | 9.049 103 4 |
| 28 | 0.80 | Green | SFCA, Male Luer Lock | - | 500 | 9.049 109 |
| 28 | 1.20 | Red | SFCA, Male Luer Lock | + | 50 | 9.049 104 |
| 28 | 1.20 | Red | SFCA, Male Luer Lock | - | 500 | 9.049 122 |
| 28 | 5.00 | Brown | SFCA, Male Luer Lock* | + | 50 | 9.049 105 5 |
| 28 | 5.00 | Brown | SFCA, Male Luer Lock | - | 500 | 9.049 123 |

* CE-marked
x = sterilization by gamma irradiation



6 Syringe filter Minisart® RC

Housing PP. Regenerated cellulose (RC). Ready-to-use units with a hydrophilic, solvent-resistant membrane made of regenerated cellulose, making sample preparation quick and easy. Suitable for aqueous/organic solutions.

Sartorius Lab Instruments

| Filter diam. | Pore size | Description | Colour | Sterile | PK | Cat. No. |
|--------------|-----------|----------------|----------------|---------|-----|------------------|
| mm | µm | | | | | |
| 25 | 0.20 | Male Luer Slip | White, Printed | + | 50 | 7.076 270 |
| 25 | 0.20 | Male Luer Slip | White, Printed | - | 50 | 9.049 094 |
| 25 | 0.20 | Male Luer Slip | White, Printed | - | 200 | 6.250 422 |
| 25 | 0.20 | Male Luer Slip | White, Printed | - | 500 | 9.049 095 |
| 25 | 0.45 | Male Luer Slip | White, Printed | - | 50 | 9.049 097 |
| 25 | 0.45 | Male Luer Slip | White, Printed | - | 200 | 6.201 608 |
| 25 | 0.45 | Male Luer Slip | White, Printed | - | 500 | 9.049 098 |
| 15 | 0.20 | Male Luer Slip | White, Printed | + | 50 | 7.075 954 |
| 15 | 0.20 | Male Luer Slip | White, Printed | - | 50 | 9.049 087 |
| 15 | 0.20 | Male Luer Slip | White, Printed | - | 500 | 9.049 088 |
| 15 | 0.45 | Male Luer Slip | White, Printed | - | 50 | 9.049 091 |
| 15 | 0.45 | Male Luer Slip | White, Printed | - | 500 | 9.049 092 |
| 4 | 0.20 | Male Luer Slip | Blue Tray | - | 50 | 9.049 081 |
| 4 | 0.20 | Male Luer Slip | Blue Tray | - | 500 | 9.049 082 |
| 4 | 0.45 | Male Luer Slip | Yellow Tray | - | 50 | 9.049 084 |
| 4 | 0.45 | Male Luer Slip | Yellow Tray | - | 500 | 9.049 085 |



7 Syringe filter Minisart® NY/NY25 Plus

Housing PP. NY (Nylon) and NY25 Plus (Glass Fiber 0.7 µm² + Nylon).

Sartorius Lab Instruments

| Filter diam. | Pore size | Description | Colour | Sterile | PK | Cat. No. |
|--------------|-----------|----------------|----------------|---------|-----|------------------|
| mm | µm | | | | | |
| 25 | 0.20 | Male Luer Slip | White, Printed | + | 50 | 7.970 531 |
| 25 | 0.20 | Male Luer Slip | White, Printed | - | 500 | 6.232 794 |
| 25 | 0.45 | Male Luer Slip | White, Printed | + | 50 | 7.616 056 |
| 25 | 0.45 | Male Luer Slip | White, Printed | - | 500 | 6.207 149 |
| 15 | 0.20 | Male Luer Slip | White, Printed | - | 50 | 6.255 610 |
| 15 | 0.45 | Male Luer Slip | White, Printed | - | 50 | 6.284 026 |
| 25 | 0.45 | Male Luer Slip | White, Printed | - | 50 | 6.252 610 |
| 25 | 0.45 | Male Luer Slip | White, Printed | - | 500 | 7.500 023 |



Filtration/Syringe filters



1 Syringe filter Minisart® SRP, PTFE

Housing PP. With a chemical-resistant, hydrophobic PTFE membrane for high purification of solvents or aggressive liquids in HPLC or GC analysis. Low adsorption.

Sartorius Lab Instruments

| Filter diam. | Pore size | Description | Colour | Sterile | PK | Cat. No. |
|--------------|-----------|----------------|----------------|---------|-----|-----------|
| mm | µm | | | | | |
| 25 | 0.20 | Male Luer Slip | White, Printed | + | 50 | 7.076 124 |
| 25 | 0.20 | Male Luer Slip | White, Printed | - | 50 | 9.049 115 |
| 25 | 0.20 | Male Luer Slip | White, Printed | - | 200 | 6.250 452 |
| 25 | 0.20 | Male Luer Slip | White, Printed | - | 500 | 9.049 114 |
| 25 | 0.45 | Male Luer Slip | White, Printed | - | 50 | 9.049 116 |
| 25 | 0.45 | Male Luer Slip | White, Printed | - | 200 | 6.250 514 |
| 25 | 0.45 | Male Luer Slip | White, Printed | - | 500 | 9.049 117 |
| 15 | 0.20 | Male Luer Slip | White, Printed | + | 50 | 7.080 155 |
| 15 | 0.20 | Male Luer Slip | White, Printed | - | 50 | 9.604 022 |
| 15 | 0.20 | Male Luer Slip | White, Printed | - | 500 | 7.017 207 |
| 15 | 0.45 | Male Luer Slip | White, Printed | - | 50 | 9.604 024 |
| 15 | 0.45 | Male Luer Slip | White, Printed | - | 500 | 9.049 073 |
| 4 | 0.20 | Male Luer Slip | Blue Tray | - | 500 | 6.255 634 |
| 4 | 0.45 | Male Luer Slip | Yellow Tray | - | 50 | 9.049 146 |
| 4 | 0.45 | Male Luer Slip | Yellow Tray | - | 500 | 9.049 147 |

Minisart SRP 15 and SRP 25 are also available in 0.2 µm pore sizes (and sterile).

2 Syringe filter CHROMAFIL®, Cellulose acetate (CA)

Hydrophilic membrane for filtration of water-soluble oligomers and polymers, especially suited for biological macromolecules. Very high shape stability in aqueous solutions extremely low binding capacity for proteins (21 µg/ 25 mm filter).

MACHEREY-NAGEL

| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|-------------------------|-----|-----------|
| | mm | µm | | | |
| non sterile | 13 | 0.20 | PP-colourless/labelled* | 100 | 7.971 473 |
| non sterile | 13 | 0.45 | PP-colourless/labelled* | 100 | 6.287 307 |
| non sterile | 25 | 0.20 | PP-yellow/red | 100 | 9.049 038 |
| non sterile | 25 | 0.20 | PP-yellow/red | 400 | 9.049 039 |
| non sterile | 25 | 0.20 | PP-colourless/labelled* | 100 | 4.003 419 |
| non sterile | 25 | 0.20 | PP-colourless/labelled* | 400 | 4.003 420 |
| non sterile | 25 | 0.45 | PP-colourless/red | 100 | 9.049 040 |
| non sterile | 25 | 0.45 | PP-colourless/red | 400 | 9.049 041 |
| non sterile | 25 | 0.45 | PP-colourless/labelled* | 100 | 4.003 421 |
| non sterile | 25 | 0.45 | PP-colourless/labelled* | 400 | 4.003 422 |
| sterile | 25 | 0.20 | PP-yellow/red | 50 | 9.049 036 |
| sterile | 25 | 0.45 | PP-colourless/red | 50 | 9.049 037 |

* CHROMAFIL® Xtra



3 Syringe filter CHROMAFIL®, Cellulose mixed ester (MV)

Hydrophilic membrane. This membrane is recommended for all filtrations of aqueous or polar organic samples.

MACHEREY-NAGEL

| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|-------------------------|-----|-----------|
| | mm | µm | | | |
| non sterile | 25 | 0.20 | PP-yellow/yellow | 100 | 9.049 030 |
| non sterile | 25 | 0.20 | PP-colourless/labelled* | 100 | 4.003 407 |
| non sterile | 25 | 0.45 | PP-colourless/yellow | 100 | 9.049 032 |
| non sterile | 25 | 0.45 | PP-colourless/yellow | 400 | 9.049 033 |
| non sterile | 25 | 0.45 | PP-colourless/labelled* | 100 | 4.003 405 |
| non sterile | 25 | 0.45 | PP-colourless/labelled* | 400 | 4.003 406 |

* CHROMAFIL® Xtra



1 Syringe filter CHROMAFIL[®], regenerated Cellulose (RC)

Hydrophilic membrane with very low adsorption for aqueous and organic/aqueous liquids i.e. polar and medium polar sample solutions. Binding capacity for proteins 84 µg/25 mm filter.

MACHEREY-NAGEL

1



| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|----------------------------------|-----|-----------|
| | mm | µm | | | |
| non sterile | 13 | 0.20 | PP-colourless/labelled* | 100 | 6.287 308 |
| non sterile | 13 | 0.45 | PP-colourless/labelled* | 100 | 6.287 309 |
| non sterile | 15 | 0.20 | PP-yellow/blue ¹⁾ | 100 | 9.049 025 |
| non sterile | 15 | 0.45 | PP-colourless/blue ¹⁾ | 100 | 9.049 026 |
| non sterile | 25 | 0.20 | PP-yellow/blue | 100 | 9.049 042 |
| non sterile | 25 | 0.20 | PP-yellow/blue | 400 | 9.049 043 |
| non sterile | 25 | 0.20 | PP-colourless/labelled* | 100 | 4.003 424 |
| non sterile | 25 | 0.20 | PP-colourless/labelled* | 400 | 4.003 425 |
| non sterile | 25 | 0.45 | PP-colourless/blue | 100 | 9.049 044 |
| non sterile | 25 | 0.45 | PP-colourless/blue | 400 | 9.049 046 |
| non sterile | 25 | 0.45 | PP-colourless/labelled* | 100 | 4.003 426 |
| non sterile | 25 | 0.45 | PP-colourless/labelled* | 400 | 6.233 891 |

* CHROMAFIL[®] Xtra¹⁾ with mini tip outlet

2 Syringe filter CHROMAFIL[®], Polytetrafluoroethylene (PTFE)

A hydrophobic membrane. Ideal for filtration of non-polar liquids and gases. It is very resistant to various solvents as well as acids and bases. By flushing with alcohol, followed by water, the original hydrophobic membrane can be made more hydrophilic.

MACHEREY-NAGEL

2



| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|------------------------------------|-----|-----------|
| | mm | µm | | | |
| non sterile | 3 | 0.20 | PP-colourless | 100 | 9.049 053 |
| non sterile | 3 | 0.45 | PP-colourless | 100 | 9.049 054 |
| non sterile | 13 | 0.20 | PP-colourless/labelled* | 100 | 7.970 889 |
| non sterile | 13 | 0.45 | PP-colourless/labelled* | 100 | 6.268 887 |
| non sterile | 15 | 0.20 | PP-yellow/colourless ¹⁾ | 100 | 9.049 055 |
| non sterile | 15 | 0.45 | PP-colourless ¹⁾ | 100 | 9.049 056 |
| non sterile | 25 | 0.20 | PP-yellow/colourless | 100 | 9.049 057 |
| non sterile | 25 | 0.20 | PP-yellow/colourless | 400 | 9.049 058 |
| non sterile | 25 | 0.20 | PP-colourless/labelled* | 100 | 4.003 409 |
| non sterile | 25 | 0.20 | PP-colourless/labelled* | 400 | 4.003 410 |
| non sterile | 25 | 0.45 | PP-colourless/labelled* | 100 | 9.049 059 |
| non sterile | 25 | 0.45 | PP-colourless/labelled* | 400 | 9.049 060 |
| non sterile | 25 | 1.00 | PP-colourless/labelled* | 100 | 6.242 808 |

* CHROMAFIL[®] Xtra¹⁾ with mini tip outlet

3 Syringe filter CHROMAFIL[®], Polyester (PET)

Hydrophilic membrane for polar as well as non-polar solvents. The HPLC filter, especially suited for mixtures of water and organic solvents; for TOC/DOC determination; not cytotoxic, does not inhibit the growth of microorganisms and higher cells. Polyester filter with integrated glass fibre prefilter (GF/PET): recommended for solutions with a high load of particulate matter or for highly viscous solutions.

MACHEREY-NAGEL

3



| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|------------------------------------|-----|-----------|
| | mm | µm | | | |
| non sterile | 15 | 0.20 | PP-yellow/orange ¹⁾ | 100 | 9.049 065 |
| non sterile | 15 | 0.45 | PP-colourless/orange ¹⁾ | 100 | 9.049 066 |
| non sterile | 25 | 0.20 | PP-yellow/orange | 100 | 9.049 067 |
| non sterile | 25 | 0.20 | PP-yellow/orange | 400 | 9.049 068 |
| non sterile | 25 | 0.20 | PP-colourless/labelled* | 100 | 4.003 417 |
| non sterile | 25 | 0.20 | PP-colourless/labelled* | 400 | 4.003 418 |
| non sterile | 25 | 0.45 | PP-colourless/orange | 100 | 9.049 069 |
| non sterile | 25 | 0.45 | PP-colourless/orange | 400 | 9.049 070 |
| non sterile | 25 | 0.45 | PP-colourless/labelled* | 100 | 6.232 548 |
| non sterile | 25 | 0.45 | PP-colourless/labelled* | 400 | 4.003 416 |
| non sterile | 25 | 1.20 | PP-colourless/labelled* | 100 | 6.232 549 |
| non sterile | 25 | 1.20 | PP-colourless/labelled* | 400 | 6.233 172 |
| non sterile | 25 | 1.0/0.20 | PP-blue/orange ²⁾ | 100 | 9.049 079 |
| non sterile | 25 | 1.0/0.45 | PP-black/orange ²⁾ | 100 | 9.049 080 |
| non sterile | 25 | 1.0/0.20 | PP-blue/orange ²⁾ | 400 | 9.049 020 |
| non sterile | 25 | 1.0/0.45 | PP-black/orange ²⁾ | 400 | 9.049 021 |
| non sterile | 13 | 0.20 | PP-colourless/labelled* | 100 | 6.287 311 |
| non sterile | 13 | 0.45 | PP-colourless/labelled* | 100 | 6.287 312 |

* CHROMAFIL[®] Xtra¹⁾ with mini tip outlet²⁾ with glass-fibre prefilter

Filtration/Syringe filters

1



1 Syringe filter CHROMAFIL®, Polyamide (PA)

Hydrophilic membrane. The membrane is recommended for filtration of medium polar organic/aqueous liquids.

MACHEREY-NAGEL

| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|-------------------------|-----|------------------|
| | mm | µm | | | |
| non sterile | 3 | 0.20 | PP-colourless | 100 | 9.049 047 |
| non sterile | 3 | 0.45 | PP-colourless | 100 | 9.049 048 |
| non sterile | 13 | 0.20 | PP-colourless/labelled* | 100 | 6.287 310 |
| non sterile | 13 | 0.45 | PP-colourless/labelled* | 100 | 6.283 261 |
| non sterile | 25 | 0.20 | PP-yellow/green | 100 | 9.049 049 |
| non sterile | 25 | 0.20 | PP-yellow/green | 400 | 9.049 050 |
| non sterile | 25 | 0.20 | PP-colourless/labelled* | 100 | 4.003 411 |
| non sterile | 25 | 0.20 | PP-colourless/labelled* | 400 | 4.003 412 |
| non sterile | 25 | 0.45 | PP-colourless/green | 100 | 9.049 051 |
| non sterile | 25 | 0.45 | PP-colourless/green | 400 | 9.049 052 |
| non sterile | 25 | 0.45 | PP-colourless/labelled* | 100 | 6.232 389 |
| non sterile | 25 | 0.45 | PP-colourless/labelled* | 400 | 6.234 011 |

* CHROMAFIL® Xtra

2



2 Syringe filter CHROMAFIL®, Hydrophilized Polytetrafluoroethylene (H-PTFE)

Hydrophilized polytetrafluoroethylene syringe filters labelled for method validation and certification

MACHEREY-NAGEL

- Hydrophobic membrane with additional hydrophilic characteristics
- For polar and nonpolar solutions
- Resistant against all kinds of solvents as well as acids and bases

| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|------------------------|-----|------------------|
| | mm | µm | | | |
| non sterile | 13 | 0.20 | PP-colourless/labelled | 100 | 6.266 191 |
| non sterile | 13 | 0.45 | PP-colourless/labelled | 100 | 6.266 192 |
| non sterile | 25 | 0.20 | PP-colourless/labelled | 100 | 6.266 189 |
| non sterile | 25 | 0.45 | PP-colourless/labelled | 100 | 7.658 851 |
| non sterile | 25 | 0.45 | PP-colourless/labelled | 400 | 6.266 190 |

3



3 Syringe filter CHROMAFIL®, Polyethersulfone (PES)

Hydrophilic membrane for aqueous and light organic solutions. Very low adsorption of pharmaceuticals and proteins. Good stability against acids and bases. Binding capacity for proteins 29 µg per 25 mm filter.

MACHEREY-NAGEL

| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|-------------------------|-----|------------------|
| | mm | µm | | | |
| non sterile | 25 | 0.20 | PP-colourless/labelled* | 100 | 4.003 427 |
| non sterile | 25 | 0.45 | PP-colourless/labelled* | 100 | 4.003 429 |
| non sterile | 25 | 0.45 | PP-colourless/labelled* | 400 | 4.003 430 |
| non sterile | 25 | 5.00 | PP-colourless/labelled* | 100 | 4.003 431 |

* CHROMAFIL® Xtra

4



4 Syringe filter CHROMAFIL®, Polyvinylidene fluoride (PVDF)

Hydrophilic membrane, for aqueous solutions, water-soluble oligomers and polymers like proteins binding capacity for proteins 20 µg/25 mm filter. The PVDF filter with integrated glass fibre prefilter (GF/P) is recommended for filtration of biological samples with high particle loads. This filter features a high binding capacity for proteins. Also suited for filtration of polar and non-polar solutions.

MACHEREY-NAGEL

| Type | Filter diam. | Pore size | Housing | PK | Cat. No. |
|-------------|--------------|-----------|------------------------|-----|------------------|
| | mm | µm | | | |
| non sterile | 13 | 0.20 | PP-colourless/labelled | 100 | 6.287 313 |
| non sterile | 13 | 0.45 | PP-colourless/labelled | 100 | 6.287 314 |
| non sterile | 25 | 0.20 | PP-colourless/labelled | 100 | 4.003 413 |
| non sterile | 25 | 0.20 | PP-colourless/labelled | 400 | 4.003 414 |
| non sterile | 25 | 0.45 | PP-colourless/labelled | 100 | 9.049 063 |
| non sterile | 25 | 0.45 | PP-colourless/labelled | 400 | 4.003 415 |
| non sterile | 25 | 1.0/0.45 | PP-black/white* | 100 | 4.003 401 |
| non sterile | 25 | 1.0/0.45 | PP-black/white* | 400 | 4.003 402 |

* with glass fibre prefilter

1 Syringe filter CHROMAFIL®, Glass-fibre (GF)

Inert Filter, nominal pore size 1µm, allows higher flow rates than smaller pore filters. For solutions with high loads of particulate matter or for highly viscous solutions (e. g. soil samples, fermentation broths) as prefilters for other CHROMAFIL® filters, they prevent plugging of the membrane.

MACHERY-NAGEL

1



| Type | Filter diam. mm | Pore size µm | Housing | PK | Cat. No. |
|-------------|--------------------|-----------------|----------------------------------|-----|-----------|
| non sterile | 15 | 1 | PP-blue/colourless ¹⁾ | 100 | 9.049 077 |
| non sterile | 25 | 1 | PP-yellow/black | 100 | 9.049 078 |
| non sterile | 25 | 1 | PP-yellow/black | 400 | 6.229 751 |
| non sterile | 13 | 1 | PP-colourless/labelled* | 100 | 7.971 495 |
| non sterile | 25 | 1 | PP-colourless/labelled* | 100 | 6.232 362 |
| non sterile | 25 | 1 | PP-colourless/labelled* | 400 | 4.003 423 |

*CHROMAFIL® Xtra
¹⁾ with mini tip outlet

2 Syringeless filters SEPARA

SEPARA integrates in one single device auto-sampler vial, filtration membrane, plunger, and cap/septa. The single step filtering process is efficient and saves time. Fast and simple to use. Reducing sample loss. After filtration the sample is ready to use in most standard autosampler. The pre-slit cap ensures easy and clean transfer of sample. 5 different septa material, PP vial with Ø 12 x 33 mm, Filtering capacity 0.48 ml, dead volume <30 µl, maximum operating temperature 50 °C

GVS S.p.A.

2



| Membrane | Pore size µm | Colour | PK | Cat. No. |
|------------------|-----------------|-------------|-----|-----------|
| Nylon | 0.22 | light blue | 100 | 6.287 339 |
| PTFE | 0.22 | pink | 100 | 6.287 340 |
| Regen. Cellulose | 0.22 | grey | 100 | 6.287 341 |
| PVDF | 0.22 | yellow | 100 | 6.287 342 |
| PES | 0.22 | light green | 100 | 6.287 343 |
| Nylon | 0.45 | blue | 100 | 6.287 344 |
| PTFE | 0.45 | red | 100 | 6.287 345 |
| Regen. Cellulose | 0.45 | black | 100 | 6.287 346 |
| PVDF | 0.45 | orange | 100 | 6.287 347 |
| PES | 0.45 | green | 100 | 6.287 348 |

3 Syringeless filters Mini-UniPrep™

The Whatman Mini-UniPrep™ filter provides a quick and easy means of removing particles from HPLC samples. In comparison to other methods the amount of time required for sample preparation is reduced to one third. Mini-Uni-Prep™ is a ready-to-use filter unit consisting of a 0.4ml chamber and a plunger. The plunger contains a filtration membrane at one end and a cap with septum at the other. The plunger is pressed through the sample in the chamber. The pressure generated forces the filtrate into the plunger reservoir, with air escaping through the vent hole until the locking mechanism engages to form an airtight seal. The unit can now be placed in any autosampler and the sample analysed.

Whatman

3



| Pore size µm | Membrane | Housing | PK | Cat. No. |
|-----------------|----------|---------|-----|-----------|
| 0.2 | PTFE | PE | 100 | 9.056 824 |
| 0.2 | RC | PE | 100 | 9.056 825 |
| 0.45 | RC | PE | 100 | 9.056 826 |
| 0.45 | PVDF | PE | 100 | 9.056 827 |
| 0.45 | DpPP | PE | 100 | 9.056 828 |
| 0.45 | GMF | PE | 100 | 9.056 829 |
| 0.45 | Nylon | PE | 100 | 9.056 830 |
| 0.45 | PTFE | PE | 100 | 9.056 831 |
| 0.45 | PP | PE | 100 | 9.056 832 |
| 0.45 | PES | PE | 100 | 6.229 725 |
| 0.2 | PES | PE | 100 | 6.283 544 |
| 0.2 | PTFE | Glass | 100 | 6.283 545 |
| 0.2 | Nylon | Glass | 100 | 6.283 546 |
| 0.2 | RC | Glass | 100 | 6.283 547 |
| 0.45 | PTFE | Glass | 100 | 6.283 548 |
| 0.45 | RC | Glass | 100 | 6.283 549 |
| 0.2 | Nylon | Glass | 100 | 6.401 676 |