

# 14. ProFill 25mm HPLC Syringe Filters, 17mm HPLC Syringe Filters and 30mm HPLC Syringe Filters

## 14.1 ProFill HPLC Syringe Filters



The ProFill HPLC Syringe Filters are suitable best for sample volumes of 1.5ml up to 100ml, as sample retention can be reduced down to < 0.1 ml, if you press with air after filtration. The effective filter area of 3.7cm<sup>2</sup> allows a quicker filtration as for example with 13mm filters.

The ultrasonically welded Polypropylene housing of the ProFill Syringe Filters ensures high pressure resistance. The membrane is fixed in the housing in such a way that a by-passing of the sample liquid is impossible. The colour-coding enables easy identification of the filter's membrane type. Furthermore membrane type

and pore size are printed onto the PE-Bag, in which the filters are tamper-proof evidently packed with 100 pieces each. An additional blue reclosable PP-Box offers further protection for the filters during transportation.

Due to their Luer Lock-Inlet (female) an easy and safe installation of the filter on the syringe is guaranteed. The outlet is designed as Luer Slip (male). Thorough quality controls before and after the manufacturing process guarantee a constantly high quality of the membrane material as well as of the complete filter unit.

Art. No.	25 16 0346	25 16 0347	25 16 0348	25 16 0349	25 16 0350	25 16 0351
Description Filter	ProFill 25mm HPLC Syringe Filter, PTFE, green, 0.20µm	ProFill 25mm HPLC Syringe Filter, PTFE, natural, 0.45µm	ProFill 25mm HPLC Syringe Filter, Regenerated Cellulose (RC), blue, 0.20µm	ProFill 25mm HPLC Syringe Filter, Regenerated Cellulose (RC), yellow, 0.45µm	ProFill 25mm HPLC Syringe Filter, Nylon (PA), bright blue, 0.20µm	ProFill 25mm HPLC Syringe Filter, Nylon (PA), bright green, 0.45µm
100 pcs. per PE-Bag add. packed in a blue PP-Box						
	Hydrophobic (water repellent)	Hydrophobic (water repellent)	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
	Sample Retention < 0.1 ml Pressure Rating: 500kPa (= 5bar = 72psi) Effective Filter Area: 3.7cm <sup>2</sup> Luer Lock-Inlet (female) Luer Slip (male)	Sample Retention < 0.1 ml Pressure Rating: 500kPa (= 5bar = 72psi) Effective Filter Area: 3.7cm <sup>2</sup> Luer Lock-Inlet (female) Luer Slip (male)	Sample Retention < 0.1 ml Pressure Rating: 500kPa (= 5bar = 72psi) Effective Filter Area: 3.7cm <sup>2</sup> Luer Lock-Inlet (female) Luer Slip (male)	Sample Retention < 0.1 ml Pressure Rating: 500kPa (= 5bar = 72psi) Effective Filter Area: 3.7cm <sup>2</sup> Luer Lock-Inlet (female) Luer Slip (male)	Sample Retention < 0.1 ml Pressure Rating: 500kPa (= 5bar = 72psi) Effective Filter Area: 3.7cm <sup>2</sup> Luer Lock-Inlet (female) Luer Slip (male)	Sample Retention < 0.1 ml Pressure Rating: 500kPa (= 5bar = 72psi) Effective Filter Area: 3.7cm <sup>2</sup> Luer Lock-Inlet (female) Luer Slip (male)
	chemically high resistant	chemically high resistant	good moistening properties, wet durable	good moistening properties, wet durable	high mechanical stability, i.e. wet + dry durable	high mechanical stability, i.e. wet + dry durable
	for organic solutions, aggressive acids and bases or cryo liquids	for organic solutions, aggressive acids and bases or cryo liquids	for aqueous and organic media, not suitable for aggressive acids and bases	for aqueous and organic media, not suitable for aggressive acids and bases	for aqueous and organic media (often used for pharmac. application)	for aqueous and organic media (often used for pharmac. application)
	Acetic acid (10%/25%/100%), Acetic acid anhydride, Acetone, Aluminum chloride, Ammonia (1 M/6 M), Ammonium fluoride, Amyl acetate, Benzaldehyde, Benzoic acid, Benzol, Boric acid, Bromine, i-Butanol, n-Butanol, Butyric acid, Butyl acetate, Carbonic acid, Carbon tetrachloride, Chloramine, Chlorobenzene, Chloroacetic acid, Cresol, Chromic acid, Cyclohexane, Cyclohexanol, Cyclohexanone, Diethyl acetamide, Diethyleneglycol, Dimethyl acetamide, Dimethyl formamide, Dimethyl sulfoxide, Ethanol < 98%, Ethyl acetate, Ethylene glycol, Ethylglycol, Formaldehyde (30%), Formic acid (25%/conc.), Heptane, Hexane, 1-Hexanol, Hydrochloric acid (25%/conc.), Hydrogen peroxide (30%), Hydrogen sulphide, Magnesium hydroxide, Methanol, Methyl acetate, Methylene chloride, Methyl glycol, Nitric acid (25%), Nitrobenzene, Oleic acid, Oxalic acid, Paraffin, Pentane, Perchloroethylene, Perchloric acid (1 M), Petroleum ether, Phenol, Phosphoric acid (25%/45%/conc.), Potassium hydroxide (1 M/6 M), i-Propanol, n-Propanol, Propyl acetate, i-Propyl acetate, Propylene glycol, i-Propyl ether, Sodium hydroxide (1 M/6 M), Sodium hypochlorite (20%), Saline solutions (aqueous), Sulphuric acid (25%), Turpentine, Tetrachloroethane, Tetralin, Toluene, Trichloroacetic acid (10%), Trichloroethane, Trichloroethylene, Urea, Xylene	Acetic acid (10%/25%), Acetone, Acetonitrile, Aluminium chloride, Ammonia (1 M) Ammonium fluoride, Amyl acetate, Benzaldehyde, Benzoic acid, Benzol, Boric acid, i-Butanol, n-Butanol, Butyric acid, Butyl acetate, Butyl cellosolve, Carbonic acid, Carbon tetrachloride, Chloramine, Chlorobenzene, Chloroform, Chromic acid, Cyclohexane, Cyclohexanol, Cyclohexanone, Diethyl acetamide, Diethyleneglycol, Diethylether, Dimethyl acetamide, 1,4-Dioxan, Ethanol < 98%, Ethyl acetate, Ethylene glycol, Ethylglycol, Formic acid (25%), Heptane, Hexane, Hydrochloric acid (25%), Hydrogen peroxide (30%), Hydrogen sulphide, Methanol, Methyl acetate, Methylene chloride, Methyl glycol, Nitric acid (25%/conc.), Perchloroethylene, Perchloric acid (1 M), Phosphoric acid (25%), i-Propanol, n-Propanol, Propyl acetate, i-Propyl acetate, Propylene glycol, i-Propyl ether, Saline solutions (aqueous), Sulphuric acid (25%), Tetrachloroethane, Tetrahydrofuran, Toluene, Trichloroacetic acid (10%), Trichloroethylene, Urea, Xylene	Acetone, Acetonitrile, Ammonium hydroxide (3N/6N), Amyl acetate, Amyl alcohol, Benzol, Butanol, Butyl acetate, Chloroform, Diethyl acetamide, Diethylether, Dimethyl formamide, Dimethyl sulfoxide, 1,4-Dioxan, Ethanol, Ethyl acetate, Ethylene dichloride, Ethylene glycol, Formaldehyde (37%/4%), Glycerol, Hexane (dry), Kerosene, Methanol, Methyl acetate, Potassium hydroxide (3N), i-Propanol, i-Propylacetate, Sodium hydroxide (1N), Tetrachloro carbonide, Tetrahydrofuran, Toluene, Urea, Xylene			

The indications on chemical resistance are only empirical data without any guarantee. Substances that are not indicated are either not suitable for the membrane material or there is no empirical data available.

## 14.2 17mm HPLC Syringe Filters

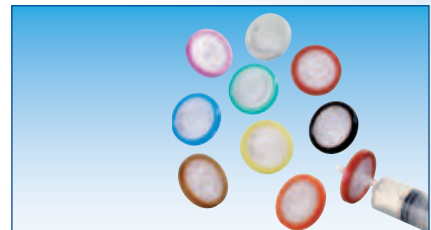
- 17mm HPLC Syringe Filters for small sample volumes.
- Sample Retention < 0.29ml.
- Pressure Rating: 790 kPa (= 7.9 bar / = 115 psi).
- Filter Area: 1.33 cm<sup>2</sup>.
- With Luer Lock-Inlet (female) and Luer Slip (male).



Art. No.	<b>17 16 2076</b>	<b>17 16 2077</b>	<b>17 16 2078</b>	<b>17 16 2079</b>	<b>17 16 2080</b>	<b>17 16 2081</b>	<b>17 16 2082</b>	<b>17 16 2083</b>
Description Filter	17mm HPLC Syringe Filter PTFE, 0.2µm, Injection-moulded ring blue + Print of the membrane type	17mm HPLC Syringe Filter PTFE, 0.45µm, Injection-moulded ring yellow + Print of the membrane type	17mm HPLC Syringe Filter Regenerated Cellulose (RC), 0.2µm, Injection-moulded ring grey + Print of the membrane type	17mm HPLC Syringe Filter Regenerated Cellulose (RC), 0.45µm, Injection-moulded ring brown + Print of the membrane type	17mm HPLC Syringe Filter Nylon (PA), 0.2µm, Injection-moulded ring purple + Print of the membrane type	17mm HPLC Syringe Filter Nylon (PA), 0.45µm, Injection-moulded ring green + Print of the membrane type	17mm HPLC Syringe Filter Glass Fibre Prefilter/PVDF, 0.2µm, Injection-moulded ring black + Print of the membrane type	17mm HPLC Syringe Filter Glass Fibre Prefilter/PVDF, 0.45µm, Injection-moulded ring red + Print of the membrane type
	Hydrophobic (water repellent)			Hydrophilic				
100 pcs. per PE-Bag, add. packed in a blue PP-Box								

## 14.3 30mm HPLC Syringe Filters

- 30mm HPLC Syringe Filters with injection-moulded ring.
- Sample Retention < 0.137ml.
- Pressure Rating: 620 kPa (= 6.2 bar / = 90 psi).
- Filter Area: 4.91 cm<sup>2</sup>.
- With Luer Lock-Inlet (female) and Luer Slip (male).

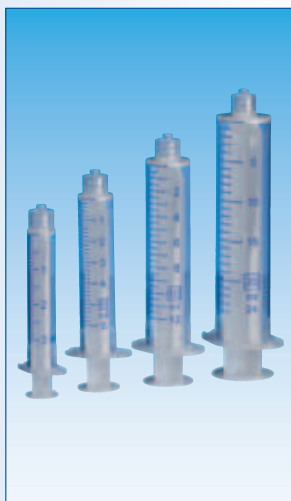


Art. No.	<b>30 16 2086</b>	<b>30 16 2087</b>	<b>30 16 2088</b>	<b>30 16 2089</b>
Description Filter	30mm HPLC Syringe Filter Glass Fibre Prefilter/PTFE, 0.2µm, Injection-moulded ring blue + Print of the membrane type	30mm HPLC Syringe Filter Glass Fibre Prefilter/PTFE, 0.45µm, Injection-moulded ring yellow + Print of the membrane type	30mm HPLC Syringe Filter Glass Fibre Prefilter/Regenerated Cellulose (RC), 0.2µm, Injection-moulded ring grey + Print of the membrane type	30mm HPLC Syringe Filter Regenerated Cellulose (RC), 0.45µm, Injection-moulded ring brown + Print of the membrane type
	Hydrophobic (water repellent)		Hydrophilic	
100 pcs. per PE-Bag, add. packed in a blue PP-Box				

Art. No.	<b>30 16 2090</b>	<b>30 16 2091</b>	<b>30 16 2092</b>	<b>30 16 2093</b>
Description Filter	30mm HPLC Syringe Filter Glass Fibre Prefilter/Nylon (PA), 0.2µm, Injection-moulded ring purple + Print of the membrane type	30mm HPLC Syringe Filter Glass Fibre Prefilter/Nylon (PA), 0.45µm, Injection-moulded ring green + Print of the membrane type	30mm HPLC Syringe Filter Glass Fibre Prefilter/PVDF, 0.2µm, Injection-moulded ring black + Print of the membrane type	30mm HPLC Syringe Filter PVDF, 0.45µm, Injection-moulded ring red + Print of the membrane type
	Hydrophilic			
100 pcs. per PE-Bag, add. packed in a blue PP-Box				

Art. No.	<b>30 16 2094</b>
Description Filter	30mm HPLC Syringe Filter, Glass Fibre/GL Microfiber, 1.2 µm, Injection-moulded ring orange + print of the membrane type for the filtration of big particles
	Hydrophilic
100 pcs. per PE bag, add. packed in a blue PP-Box	

## 15. HPLC certified Plastic Disposable Syringes with Luer Lock and Luer Slip



### HPLC certified, non sterile disposable syringes made of solvent robust polypropylene for all syringe filter applications

- Each manufactured batch is HPLC controlled and supplied with an appropriate certificate upon request.
- Syringes manufactured according to ISO 13485 (Medical devices).
- Luer Lock manufactured according to ISO 594-2 / DIN EN 1707.
- Luer Slip manufactured according to ISO 594-1 / DIN EN 20594-1.
- Two-part, all-plastic construction made of a chemically resistant, inert polypropylene.
- No rubber plunger seals or silicone lubricants that may cause sample contamination.
- Free of latex, free of plasticizers, free of PVC.
- Safe functional back-stop feature.
- Easy to read permanent graduations.
- All Luer Lock syringes have centered tips.
- Available with Luer Lock and Luer Slip connections.



### 15.1 Plastic Disposable Syringes with Luer Lock

Scale 1:2				
Art. No.	<b>02 36 2399</b>	<b>05 36 2400</b>	<b>10 36 2401</b>	<b>20 36 2402</b>
Description	2ml Disposable Syringe non sterile <b>Luer Lock</b>	5ml Disposable Syringe non sterile <b>Luer Lock</b>	10ml Disposable Syringe non sterile <b>Luer Lock</b>	20ml Disposable Syringe non sterile <b>Luer Lock</b>
100 pcs. per PE-Bag				

### 15.2 Plastic Disposable Syringes with Luer Slip

Scale 1:2				
Art. No.	<b>02 36 2403</b>	<b>05 36 2404</b>	<b>10 36 2405</b>	<b>20 36 2406</b>
Description	2ml Disposable Syringe non sterile <b>Luer Slip</b>	5ml Disposable Syringe non sterile <b>Luer Slip</b>	10ml Disposable Syringe non sterile <b>Luer Slip</b>	20ml Disposable Syringe non sterile <b>Luer Slip</b>
100 pcs. per PE-Bag				