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**Be Simple, Be Professional**



**Solutions for chromatography**

www.alwsci.com



As a global supplier of Chromatography Vials, Closures, Septa and Syringe Filters, ALWSCI devote analytical test and laboratory consumables to provide high quality, efficient service and favorable price.

As an ISO 9001:2015 certified company, ALWSCI have set up high quality standards for ourselves and took fully responsible for all clients.

Besides, ALWSCI own 10,000 SQM factory area with 5,000 SQM 100,000 grade cleaning room. To keep stable quality, improve productivity, and avoid any contamination from human interference, ALWSCI have invested more than 10 automatic production lines presently.

To offer a better solution of sample preparation, full production line is available, including a series of sample vials from 1ML to 1,000ML, Septa from 4mm to 55mm diameter, and Syringe filters made of various membrane.

We would like to draw your attention to Ultra-Clean Septa and EPA Quality Vial KIT. These high quality consumables are mostly used for LC/MS, GC/MS and MS/MS in the environmental, chemical, food and pharmaceutical industries.

We have customers from pharmaceutical, life science, chemistry, technology, food processing industry and so on. Others like University, research institution, government institution, environment test institution, etc.

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**ALWSCI Group has two famous brands, ALWSCI<sup>®</sup> and Labfil<sup>®</sup>.**

☞ ALWSCI<sup>®</sup> focus on Chromatography Vial, Closures and Sample Storage Vial.

☞ Labfil<sup>®</sup> focus on Filtration, including Membrane, and Syringe Filters (sterile and non-sterile).



**Main products:**

**Analysis: Autosampler Vials & Closures.  
Storage: Sample Vials & Closures.**



**Main products:**

**Filtration: Membrane, Syringe Filters, and etc.**

Further products are available upon request!

Hopefully you will find the introduction of our company not only informative, but also interesting.

☞ We would like to thank you for taking time to visit our website.

☞ [www.alwsci.com](http://www.alwsci.com)

☞ [www.labfil.com](http://www.labfil.com)

☞ [www.chinasepta.com](http://www.chinasepta.com)

Zhejiang ALWSCI Technologies Co., Ltd.





# CERTIFICATE

# ALWSCI Group

# FACTORY APPEARANCE



## ALWSCI Technologies.





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## ALWSCI Main products:

**Analysis:**  
Autosampler Vials & Closures.

**Storage:**  
Sample Vials & Closures.

## Selection Guide

- Proper septa selection is critical to prevent contamination and avoid damage to the needle and instrument.
- The right choice of septa depends on the application.
- For highly sensitive samples, we recommend PTFE-lined Silicone septa, because the PTFE layer is good at chemically resistant.
- Besides, septa made of different materials are with different safety temperature resistance.

### ► Septa Selection Guide

Materials	Safety Temperature
PTFE/Silicone	180°C
PTFE/Silicone/PTFE	200°C
Red Rubber/PTFE	-40°C to 110°C
Natural Rubber/TEF Butyl/PTFE	-40°C to 120°C
PE	-20°C to 80°C

### ► Cap Selection Guide

Materials	Safety Temperature
PP Cap	-20°C to 100°C
Aluminum Cap	-60°C to 300°C

**Better Your Chromatography Consumables.**



**ALWSCI<sup>®</sup>**  
**HIT PRODUCTS**

# Certified Vials & Closures

- ◆ Resealable box helps to prevent contamination during use.
- ◆ Constructed with PTFE/ Silicone septa for contamination free sampling.
- ◆ UltraClean PTFE/ Silicone septa is optimized for gas chromatography and mass spectrometry.

## > Certified - 2mL Vials & Closures



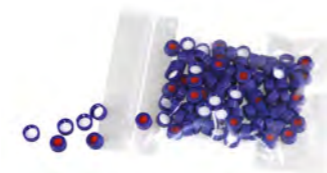
Ref.No.	C0001170	C0001172
<b>Description</b>	2mL Clear Glass 12x32mm Flat Base 9-425 Screw Thread Vial with Label. Blue 9-425 Open Top Ribbed Screw Cap with 9mm Red PTFE/White Silicone Septa 1mm Thick (UltraClean).	2mL Amber Glass 12x32mm Flat Base 9-425 Screw Thread Vial with Label. Blue 9-425 Open Top Ribbed Screw Cap with 9mm Red PTFE/White Silicone Septa 1mm Thick (UltraClean).
	Vial Cap Septa are pre-assembled together. Blue Kit Packing. 100sets/pk	



Ref.No.	C0001017	C0001018	C0001019
<b>Description</b>	Black 8-425 Open Top Screw Cap with 8mm Red PTFE/White Silicone Septa 1.5mm Thick (UltraClean).	Blue 11mm Open Top Snap Cap with Red PTFE/White Silicone Septa 1mm Thick (UltraClean).	Blue 9-425 Open Top Ribbed Screw Cap with 9mm Red PTFE/White Silicone Septa 1mm Thick (UltraClean).
	100pcs/pk		



Ref.No.	C0001020	C0001021	C0001028
<b>Description</b>	Blue 9-425 Open Top Ribbed Screw Cap with 9mm Red PTFE/White Silicone Septa 1mm Thick PRE-SLIT (UltraClean).	Red 9-425 Open Top Smooth Screw Cap with 9mm Red PTFE/White Silicone Septa 1mm Thick (UltraClean).	Blue 9-425 Open Top Ribbed Screw Cap with 9mm White PTFE/Red Silicone Septa 1mm Thick (UltraClean).
	100pcs/pk		



Ref.No.	C0001037	C0001056
<b>Description</b>	Black 8-425 Open Top Screw Cap with 8mm Blue PTFE/White Silicone Septa 1.5mm Thick (UltraClean).	Blue 9-425 Open Top Ribbed Screw Cap with 9mm Blue PTFE/White Silicone Septa 1mm Thick PRE-SLIT (UltraClean).
	100pcs/pk	

## > Certified - ND18 Closures



Ref.No.	C0000974	C0000975	Package
<b>Description</b>	18mm Silver Color Open Top Metal Cap (8mm hole) with 17.5mm White PTFE/Blue Transparent Silicone Septa 1.5mm Thick (UltraClean).	18mm Silver Color Open Top Metal Cap (8mm hole) with 17.5mm Natural PTFE/Blue Transparent Silicone Septa 1.5mm Thick (UltraClean).	
	100pcs/pk.		

## > Certified - ND20 Closures



Ref.No.	C0000927	C0000972	C0000973
<b>Description</b>	20mm Open Top Aluminum Crimp Cap (10mm hole) with 20mm White PTFE/Blue Silicone Septa 3mm Thick (UltraClean).	20mm Open Top Aluminum Crimp Cap (10mm hole) with 20mm White PTFE/Blue Transparent Silicone Septa 3mm Thick (UltraClean).	20mm Open Top Aluminum Crimp Cap (10mm hole) with 20mm Natural PTFE/Blue Transparent Silicone Septa 3mm Thick (UltraClean).
	100pcs/pk		

## > Certified - ND24 Closures












Ref.No.	C0000316	C0001082	C0001189
<b>Description</b>	22mm Blue PTFE/White Silicone 3.0mm thick Septa (Ultra Clean).	22mm Natural PTFE/White Silicone 3.0mm thick Septa (Ultra Clean).	24-400 White Open Top PP Screw Cap with 22mm Natural PTFE/ White Silicone 3.0mm Thick Septa (EPA Quality).
	100pcs/pk		



## EPA/TOC Vials & Closures

- If you are doing any sampling, testing, or validation, you need to make sure the results were not skewed by a contaminant that may have come from the container.
- ALWSCI offers a range of certified EPA Screw Vial Convenience Kits which are suitable on all TOC manufacturer's instruments, including Sievers, Shimadzu, OI Analytical, and Teledyne-Tekmar.
- All Certified to contain <10ppb Carbon, giving you confidence in the quality of your TOC measurements.
- Teflon lined caps and protective dust covers.
- Superior vial-to-vial consistency.
- Capped with teflon lined silicone septa and dust cover.
- Widely apply to air, water, soil analysis test, also pesticide residue, pharmaceutical manufacturing and forensic test.

### > EPA/TOC

		
<b>Ref.No.</b> C0000413	<b>C0000331</b>	<b>C0000338/C0000339</b>
<b>Description</b> 20mL 27.5x57mm Clear Glass EPA/TOC Vial 24-400 White Open Top PP Screw Cap with 22mm Natural PTFE/White Silicone 3.0mm thick Septa (EPA Quality).	20mL 27.5x57mm Amber Glass EPA/TOC Vial 24-400 White Open Top PP Screw Cap with 22mm Natural PTFE/White Silicone 3.0mm thick Septa (EPA Quality).	20mL 27.5x57mm Clear/Amber Glass EPA/TOC Vial 24-400 White Open Top PP Screw Cap with 22mm Natural PTFE/White Silicone 3.0mm thick Septa (EPA Quality) and Dust Cover.
pre-assembled together. 100pcs/pk.		
		
<b>Ref.No.</b> C0000334	<b>C0000335</b>	<b>C0000342/C0000343</b>
<b>Description</b> 40mL 27.5x95mm Clear Glass EPA/TOC Vial 24-400 White Open Top PP Screw Cap with 22mm Natural PTFE/White Silicone 3.0mm thick Septa (EPA Quality).	40mL 27.5x95mm Amber Glass EPA/TOC Vial 24-400 White Open Top PP Screw Cap with 22mm Natural PTFE/White Silicone 3.0mm thick Septa (EPA Quality).	40mL 27.5x95mm Clear/Amber Glass EPA/TOC Vial 24-400 White Open Top PP Screw Cap with 22mm Natural PTFE/White Silicone 3.0mm thick Septa (EPA Quality) and Dust Cover.
pre-assembled together. 72pcs/pk.		
		
<b>Ref.No.</b> C0001201	<b>C0001202</b>	<b>Blue Kit Packing</b>
<b>Description</b> 60mL 27.5x140mm Clear Glass EPA/TOC Vial 24-400 White Open Top PP Screw Cap with 22mm Natural PTFE/White Silicone 3.0mm thick Septa (EPA Quality).	60mL 27.5x140mm Amber Glass EPA VOA VOC TOC Vial 24-400 White Open Top PP Screw Cap with 22mm Natural PTFE/White Silicone 3.0mm thick Septa (EPA Quality).	
pre-assembled together. 72pcs/pk.		

## Bonded



- Our bonding machines are fully automated to bond liners to caps using a mechanical bond without any adhesives or chemicals.
- No glue contamination.
- No additional assembly.
- Prevent liner fallout.
- Use with different polypropylene caps.
- Available in 1mm-3mm standard thicknesses; customization is available.
- Ideal for medical devices, diagnostics packaging and specialty chemicals.

### >ND9 Closures

	
<b>Ref.No.</b> C0000144	<b>C0001359</b>
<b>Description</b> Blue 9-425 Open Top Ribbed Screw Cap Bonded with 9mm Red PTFE/White Silicone Septa 1mm Thick.	Blue 9-425 Open Top Ribbed Screw Cap Bonded with 9mm Red PTFE/White Silicone Septa 1mm Thick PRE-SLIT.
100pcs/pk.	



### >ND24 Closures

	
<b>Ref.No.</b> C0001414	<b>C0001553</b>
<b>Description</b> 24-400 White Open Top PP Screw Cap Bonded with 22mm Natural PTFE/White Silicone Septa 3mm Thick.	24-400 White Open Top PP Screw Cap Bonded with 22mm Natural PTFE/White Silicone Septa 1.5mm Thick.
100pcs/pk.	





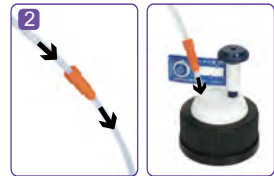

# GL45 Safety Caps

- For optimum efficiency, a time strip installed on top of the filter, clearly indicates the usage and by when the filter has to be changed.
- The Safety Caps can protect your laboratory environment. The safety system offers protection and ensures safer work in lab. The integrated PTFE layer captures dust and other contaminants from the air.
- The ergonomic design allows an easy and tool free replacement of solvent due to freely rotatable cap-inserts and finger tight fittings that avoid twisted tubes during container exchange.

				
<b>Ref.No.</b> C0000270	<b>C0000271</b>	<b>C0000272</b>	<b>C0000273</b>	<b>C0000274</b>
<b>Description</b>				
Blue GL45 Safety Cap with Two holes for 1/8 inch OD tubing.				
Red GL45 Safety Cap with Three holes for 1/8 inch OD tubing.				
Yellow GL45 Safety Cap with Four holes for 1/8 inch OD tubing.				
Blue GL45 Safety Cap with Two holes for 1/16 inch OD tubing.				
Red GL45 Safety Cap with Three holes for 1/16 inch OD tubing.				
1pc/pk				
				
<b>Ref.No.</b> C0000275	<b>C0000969</b>	<b>C0000970</b>	<b>C0000971</b>	
<b>Description</b>				
Yellow GL45 Safety Cap with Four holes for 1/16 inch OD tubing.				
10-32unf PEEK Fitting for 1/16 inch OD Tubing Natural Color.				
1/4-28 PEEK Fitting for 1/8 inch OD Tubing Natural Color.				
10-32unf PEEK Blind Plug Natural Color.				
1pc/pk				

## Installing the Safety Caps ★






			
<b>Rart.No.</b> C0001828	<b>C0001829</b>	<b>C0001830</b>	<b>C0001846</b>
<b>Description</b>			
Black GL45 Safety Cap with 2 ports Including 1x Air Valve and 1 x 1/4"-28 fitting for 1/8" tubing.			
Black GL45 Safety Cap with 3 ports Including 1x Air Valve and 2 x 1/4"-28 fitting for 1/8" tubing.			
Black GL45 Safety Cap with 4 ports Including 1x Air Valve and 3 x 1/4"-28 fitting for 1/8" tubing.			
GL45 Air Valve.			
1set/pk.			

# Barcoded Vial

- No more smudges no more smears, Better data for your peers.
- One vial, one code. No duplicate barcodes. You can track every individual vial in system.
- Each barcode scanned for 100% readability.
- Customized service is workable as request, like QR code, Datamatrix (2D) type to choose.
- Will not contaminate the samples in anyway.
- The printings on vials are fired on the glass, which makes the printings.
- Can resist all common solutions in laboratories.
- Barcoded vials are annealing after over 500°C, perfect with printing durability and vial inner cleanness.

			
<b>Ref.No.</b> C0001561	<b>C0001562</b>	<b>C0001563</b>	<b>C0001564</b>
<b>Description</b>			
Barcoded 2mL Clear Glass 12x32mm Flat Base 9-425 Screw Thread Vial.			
QR Coded 2mL Clear Glass 12x32mm Flat Base 9-425 Screw Thread Vial.			
Barcoded 2mL Amber Glass 12x32mm Flat Base 9-425 Screw Thread Vial.			
QR Coded 2mL Amber Glass 12x32mm Flat Base 9-425 Screw Thread Vial.			
100pcs/pk			

		
<b>Ref.No.</b> C0001713	<b>C0001714</b>	<b>C0001767</b>
<b>Description</b>		
Barcoded 4mL Clear Glass 15x45mm Flat Base 13-425 Screw Thread Vial.		
Barcoded 4mL Amber Glass 15x45mm Flat Base 13-425 Screw Thread Vial.		
Barcode 40mL Clear Glass Sample Vial 27.5x95mm 24-400 Screw Thread.		
100pcs/pk		

			
<b>Ref.No.</b> C0001768	<b>C0001769</b>	<b>C0001770</b>	<b>C0001771</b>
<b>Description</b>			
Barcode 60mL 33-400 Wide Mouth Amber Glass Bottle 44.5x75.5mm.			
Barcode 120mL 38-400 Wide Mouth Amber Glass Bottle 52.8x95mm.			
Barcode 250mL 45-400 Wide Mouth Amber Glass Bottle 64x119mm.			
Barcode 500mL 53-400 Wide Mouth Amber Glass Bottle 80.6x146.5mm.			



## Screw Neck ND8

- Standard opening vials for GC and HPLC, used on instruments of Shimadzu, Varian, Gilson etc.
- To meet your micro sampling needs, ALWSCI has a variety of micro volume inserts with capacities and designs that can transform our vials from full-capacity to limited volume with one simple step.
- Standard opening requires Micro-insert with a diameter of 5mm.
- Micro inserts with flat bottom, conical base, with plastic spring are available.
- The conical design permits complete sample removal.



Ref.No.	C0000001	C0000002	C0000003	C0000004
Description	2mL Clear Glass 12x32mm Flat Base 8-425 Screw Thread Vial.	2mL Clear Glass 12x32mm Flat Base 8-425 Screw Thread Vial with Label.	2mL Amber Glass 12x32mm Flat Base 8-425 Screw Thread Vial.	2mL Amber Glass 12x32mm Flat Base 8-425 Screw Thread Vial with Label.
	100pcs/pk			

### > 8mm Septa



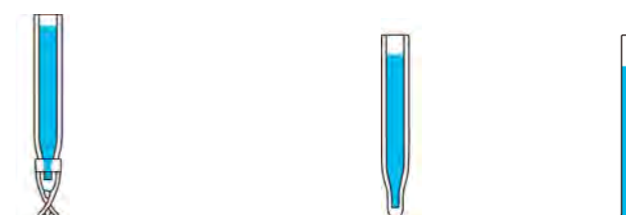
Ref.No.	C0000436	C0000943	C0000321	C0000964	C0000445	C0000999
Description	8-425 Red PTFE/White Silicone Septa 1mm Thick.	8-425 Red PTFE/White Silicone Septa 1.3mm Thick.	8-425 Red PTFE/White Silicone Septa 1.5mm Thick.	8-425 Red PTFE/White Silicone Septa 1.5mm Thick PRE-SLIT.	8-425 White PTFE/Red Silicone Septa 1.5mm thick.	8-425 Blue PTFE/White Silicone Septa 1.5mm thick.
	100pcs/pk					

### > ND8 Closures



Ref.No.	C0000931	C0000957	C0000133	C0000409
Description	Black 8-425 Open Top Screw Cap.	White 8-425 Open Top Screw Cap.	Black 8-425 Open Top Screw Cap with 8mm Red PTFE/White Silicone Septa 1.5mm Thick.	White 8-425 Open Top PP Cap with 8mm White PTFE/Red Silicone Septa 1.5mm Thick.
	100pcs/pk			

### > 5mm Micro Insert



Ref.No.	C0000074	C0000075	C0000076
Description	5x29mm Insert Clear Glass Conical Base with Polyspring.	5x31mm Insert Clear Glass Conical Base.	5x31mm Insert Clear Glass Flat Base.
	100pcs/pk		

# ALWSCI® AUTOSAMPLER VIALS & CLOSURES

## Screw Neck ND9

- ♦ Wide opening 9-425 vials can be used on all common autosamplers, perfectly compatible with Agilent, Thermo Scientific, Waters, Varian, etc.
- ♦ Vials with intergrated micro-insert are available in clear and amber glass.
- ♦ Wide opening 12x32mm, Polypropylene vials have chemically resistance, which are used for atomic absorption, water and protein analysis, capillary electrophoresis, ion chromatography applications etc.
- ♦ PTFE/silicone slit shape choices are Single, Y-shape, Cross available.
- ♦ The polymer spring acts as a shock absorber that protects against breakage if the needle bottoms out.
- ♦ Vials and closures are available for packing into a kit to reduce the risk of contamination of vials in laboratories.
- ♦ A variety of septa colors and pre-assembled closures are available to offer as request.



Ref.No.	C0000006	C0000008	C0000010	C0000011
Description	2mL Clear Glass 12x32mm Flat Base 9-425 Screw Thread Vial.	2mL Clear Glass 12x32mm Flat Base 9-425 Screw Thread Vial with Label.	2mL Amber Glass 12x32mm Flat Base 9-425 Screw Thread Vial.	2mL Amber Glass 12x32mm Flat Base 9-425 Screw Thread Vial with Label.
	100pcs/pk			



Ref.No.	C0000084 ★	C0000085 ★	C0000410	C0000127	C0001869 ★
Description	0.3mL 9-425 PP Screw Thread Micro-Vial Transparent. 12x32mm.	0.3mL 9-425 PP Screw Thread Micro-Vial Amber. 12x32mm.	2mL 9-425 Wide Opening PP Screw Vial with Graduations Transparent .	2mL 9-425 Clear 12x32mm Screw Thread Vial Bottom with Integrated 0.2ml Glass Micro-insert.	0.7mL 9-425 PP Screw Thread Micro-Vial Transparent. 12x32mm.
	100pcs/pk				



Ref.No.	C0000961	C0000962
Description	2mL Amber Glass 12x32mm Flat Base 9-425 Screw Thread Vial with Label. Blue 9-425 Open Top Ribbed Screw Cap with 9mm White PTFE/Red Silicone Septa 1mm Thick.	2mL Clear Glass 12x32mm Flat Base 9-425 Screw Thread Vial with Label. Blue 9-425 Open Top Ribbed Screw Cap with 9mm White PTFE/Red Silicone Septa 1mm Thick.
	Kit Packing.100pcs/pk	

## > 9mm Septa



Ref.No.	C0000402	C0000329	C0000439	C0000324	C0000431
Description	9-425 Red PTFE/White Silicone Septa 1mm Thick.	9-425 White PTFE/Red Silicone Septa 1mm Thick.	9-425 Blue PTFE/White Silicone Septa 1mm Thick.	9-425 Red PTFE/White Silicone Septa 1mm Thick PRE-SLIT.	9-425 Blue PTFE/White Silicone Septa 1mm Thick PRE-SLIT.
	100pcs/pk				

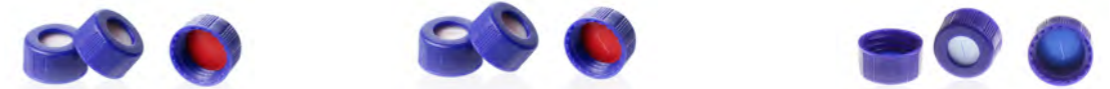


Ref.No.	C0001133	C0000801	C0000460
Description	9-425 Red PTFE/White Silicone Septa 1.0mm Thick PRE-SLIT(Mercedes Shape).	9-425 Red PTFE/White Silicone Septa 1mm Thick PRE-SLIT(Cross Shape).	9-425 Natural PTFE/White Silicone Septa 1mm thick.
	100pcs/pk		

## > ND 9 Closures

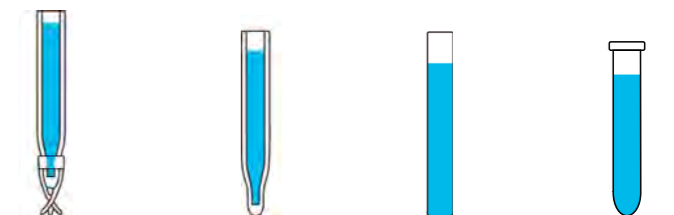


Ref.No.	C0001746 ★	C0001747 ★	C0001748 ★
Description	Red 9-425 Open Top Ribbed Screw Cap with 9mm Blue PTFE/White Silicone Septa 1mm Thick PRE-SLIT.	Yellow 9-425 Open Top Ribbed Screw Cap with 9mm Blue PTFE/White Silicone Septa 1mm Thick PRE-SLIT.	Green 9-425 Open Top Ribbed Screw Cap with 9mm Blue PTFE/White Silicone Septa 1mm Thick PRE-SLIT.
	100pcs/pk		



Ref.No.	C0000143	C0000148	C0000149
Description	Blue 9-425 Open Top Ribbed Screw Cap with 9mm Red PTFE/White Silicone Septa 1mm Thick.	Blue 9-425 Open Top Ribbed Screw Cap with 9mm Red PTFE/White Silicone Septa 1mm Thick PRE-SLIT.	Blue 9-425 Open Top Ribbed Screw Cap with 9mm Blue PTFE/White Silicone Septa 1mm Thick PRE-SLIT.
	100pcs/pk		

## > 6mm Micro Insert



Ref.No.	C0000070	C0000072	C0000073	C0000077
Description	6x29mm Insert Clear Glass Conical Base with Polyspring.	6x31mm Insert Clear Glass Conical Base.	6x31mm Insert Clear Glass Flat Base.	6x29mm PP Insert Conical Base.
	100pcs/pk			



## Crimp Neck ND11

- The Crimp Vials are used on instruments of Agilent, PerkinElmer, Varian, etc.
- The wide opening crimp cap provides a larger target area for improved autosampler needle accuracy.
- Vials with intergrated Micro-insert are also available in clear and amber glass.
- PTFE/silicone, Natural Rubber/TEF septa, Pre-slit septa to choose.
- The 3-layer septa of Natural Rubber/Red Butyl/TEF combines the good physical properties of Natural Rubber (Resealability) with good chemical properties of butyl. (See Customized service page)



Ref.No.	C0000014	C0000015	C0000016	C0000018	C0000129
Description	2mL Clear Glass Flat Base 11mm Crimp Vial Wide Opening.	2mL Clear Glass Flat Base 11mm Crimp Vial Wide Opening with Label.	2mL Amber Glass Flat Base 11mm Crimp Vial Wide Opening.	2mL Amber Glass Flat Base 11mm Crimp Vial Wide Opening with Label.	2mL 11mm Crimp Top Clear Vial Bottom with Integrated 0.2ml Glass Micro-insert.
	100pcs/pk				

### >ND 11 Closures



Ref.No.	C0000164	C0000165	C0000166	C0000167
Description	SILVER 11mm Open Top Crimp Cap with CLEAR TEF/ Red Silicone Septa 1mm Thick.	SILVER 11mm Open Top Crimp Cap with Red PTFE/ White Silicone Septa 1mm Thick.	SILVER 11mm Open Top Crimp Cap with Red PTFE/ White Silicone/Red PTFE Septa 1mm Thick.	SILVER 11mm Open Top Crimp Cap with Red Silicone Septa 1mm Thick.
	100pcs/pk			



Ref.No.	C0000168	C0000169 ★ Patent No.:CN107163311B	C0000980
Description	SILVER 11mm Open Top Crimp Cap with White PTFE/ Red Silicone Septa 1mm Thick.	SILVER 11mm Open Top Crimp Cap with Transparent TEF/Natural Rubber red-orange Septa 1mm Thick.	SILVER 11mm Open Top Crimp Cap with Red PTFE/ White Silicone Septa 1mm Thick PRE-SLIT.
	100pcs/pk		

## Snap Neck ND11

- The vials are used on instruments of Agilent, CTC, Thermo Scientific, Waters, etc.
- Snap Ring finish eliminates the need for crimping or decapping.
- The intergrated Micro-insert are available for in clear and amber glass, micro-inserts can be delivered pre-assembled in vials.
- Snap ring caps are also available in a soft quality with transparent or blue caps, soft caps are more convenient in handling (pushing on/removal).
- The septa shapes have Single and Snow type to choose.



Ref.No.	C0000020	C0000021	C0000022	C0000023	C0000130
Description	2mL Clear Glass Flat Base 11mm Snap Vial Wide Opening.	2mL Clear Glass Flat Base 11mm Snap Vial Wide Opening with Label.	2mL Amber Glass Flat Base 11mm Snap Vial Wide Opening.	2mL Amber Glass Flat Base 11mm Snap Vial Wide Opening with Label.	2mL 11mm Snap Top Clear Vial Bottom with Integrated 0.2ml Glass Micro-insert.
	100pcs/pk				



Ref.No.	C0001023 ★	C0001827 ★	C0001867/C0001868 ★	C0001870 ★
Description	2mL 11mm PP Snap Top Vial with 0.3mL Micro-Vial Transparent. 12x32mm.	2mL 11mm PP Snap Top Vial with 0.3mL Micro-Vial Amber. 12x32mm.	450uL Filter Vial with 0.45um/0.22um PTFE(Hydrophilic) membrane and a CLEAR 11mm Open Top Snap Cap with Red PTFE/White Silicone Septa 1mm Thick.	2mL 11mm PP Snap Top Vial with 0.7mL Micro-Vial Transparent. 12x32mm.
	100pcs/pk			

### >ND 11 Closures



Ref.No.	C0000170	C0000171	C0000172	C0000173
Description	CLEAR 11mm Open Top Snap Cap with Red PTFE/White Silicone Septa 1mm Thick.	BLUE 11mm Open Top Snap Cap with Red PTFE/White Silicone Septa 1mm Thick.	RED 11mm Open Top Snap Cap with Red PTFE/White Silicone Septa 1mm Thick.	CLEAR 11mm Open Top Snap Cap with Red PTFE/White Silicone/Red PTFE Septa 1mm Thick.
	100pcs/pk			



Ref.No.	C0000174	C0000175	C0000176	C0000177
Description	CLEAR 11mm Open Top Snap Cap with Red PTFE/White Silicone Septa 1mm Thick PRE-SLIT.	CLEAR 11mm Open Top Snap Cap with Red PTFE/White Silicone Septa 1mm Thick PRE-SLIT (snow shape).	CLEAR 11mm Open Top Snap Cap with Transparent TEF/Natural Rubber red-orange Septa 1mm Thick.	CLEAR 11mm Open Top Snap Cap with White PTFE/Red Silicone Septa 1mm Thick.
	100pcs/pk			

## Screw Neck ND13

- The vials are used on instruments of Dionex, Shimadzu, VWR, Waters etc.
- 4mL vials are widely used in compound storage as well as for Chromatography vials, available as closed or open top screw seals with 13-425 thread.



Ref.No.	C0000024	C0000025	C0000026	C0000027
<b>Description</b>	4mL Clear Glass 15x45mm Flat Base 13-425 Screw Thread Vial.	4mL Clear Glass 15x45mm Flat Base 13-425 Screw Thread Vial with Label.	4mL Amber Glass 15x45mm Flat Base 13-425 Screw Thread Vial.	4mL Amber Glass 15x45mm Flat Base 13-425 Screw Thread Vial with Label.
	100pcs/pk			

### >ND 13 Septa



Ref.No.	C0000322	C0000408	C0000863	C0000935	C0001134
<b>Description</b>	13mm Red PTFE/White Silicone Septa 1mm Thick.	13mm Red PTFE/White Silicone Septa 1mm Thick PRE-SLIT.	13mm White PTFE/Red Silicone Septa 1mm Thick.	13mm Natural PTFE/White Silicone Septa 1mm thick.	13mm Pure PTFE Septa 1.0mm Thick.
	100pcs/pk				

### >ND 13 Closures



Ref.No.	C0000179	C0000180	C0000181	C0000182
<b>Description</b>	Black PP 13-425 Open Top Screw Cap with Red PTFE/White Silicone Septa 1mm Thick.	Black PP 13-425 Open Top Screw Cap with Red PTFE/White Silicone Septa 1mm Thick PRE-SLIT.	Black PP 13-425 Open Top Screw Cap with White PTFE/Red Silicone Septa 1mm Thick.	Black PP 13-425 Open Top Screw Cap with Natural PTFE/White Silicone Septa 1mm Thick.
	100pcs/pk			

## Shell Vial

- The vial with soft plug is used on Waters and Shimadzu, the star-shaped plug is for easy penetration.
- The normal size is 8x40mm, and 8x30mm is also available.



Ref.No.	C0000078	C0001267
<b>Description</b>	1mL 8x40mm Flat Base Clear Glass Shell Vial with Plug.	White Plug (used for 1mL Shell Vial).
	200pcs/pk.	

## High Recovery Vial

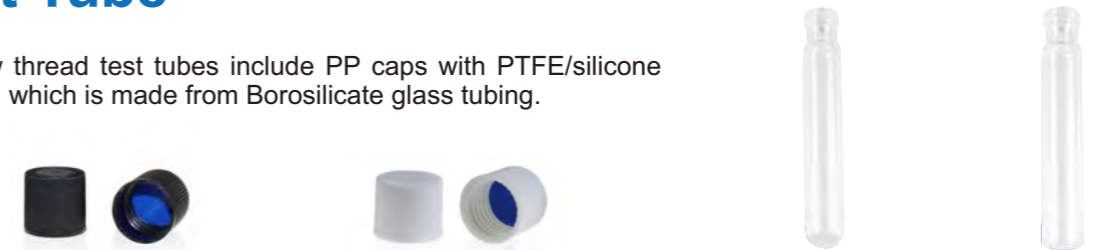
- High recovery vials combine large sample capacities with near full sample extraction.
- Excellent for Compound Storage.
- Smoothly sloped inner conical surface ensures a high level of solid/liquid recovery.



Ref.No.	C0001211	C0001212	C0001306	C0001710
<b>Description</b>	1.5mL High Recovery Vial Clear Glass 12x32mm Flat Base 9-425 Screw Thread.	1.5mL High Recovery Vial Amber Glass 12x32mm Flat Base 9-425 Screw Thread.	2mL Crimp High Recovery Vial Clear Glass Flat Base Wide Opening.	4mL High Recovery Vial Clear Glass 15x51mm Flat Base 13-425 Screw Thread.
	100pcs/pk.			

## Test Tube

- Screw thread test tubes include PP caps with PTFE/silicone septa, which is made from Borosilicate glass tubing.



Ref.No.	C0001093	C0001138	C0000131	C0001510
<b>Description</b>	15-415 Black Closed Top PP Cap with Blue PTFE/White Silicone Septa 1.5mm Thick.	15-415 White Closed Top PP Cap for Test Tube with 15mm Natural PTFE/White Silicone Septa 1.5mm Thick.	10mL 16x100mm Clear Screw Test Tube. Rounded Bottom.	10mL 16x100mm Clear Screw Test Tube. Flat Bottom.
	250pcs/pk.			

Ref.No.	C0001772 ★
<b>Description</b>	10mL 16x100mm Clear Screw Test Tube. Rounded Bottom. 15-415 White Closed Top PP Cap with Blue PTFE/White Silicone Septa 1.5mm Thick. Vial Cap Septa are pre-assembled together.
	25pcs/pk.





## Screw Headspace ND18

- Pre-assembling vial+closure service is available upon request.
- The magnetic screw caps can be used for headspace as well as for SPME.
- Type of Cap: Magnetic Precision screw cap, Closed Precision screw cap.



Ref.No.	C0000028	C0000029	C0000030	C0000031	C0000920	C0001139
Description	10mL Clear Glass Screw Headspace Vial 22.5x46mm.	10mL Amber Glass Screw Headspace Vial 22.5x46mm.	20mL Clear Glass Screw Headspace Vial 22.5x75mm.	20mL Amber Glass Screw Headspace Vial 22.5x75mm.	18mm Silver Color Open Top Metal Cap.	18mm Silver Color Closed Top Metal Cap.
	100pcs/pk					



Ref.No.	C0000208	C0000474	C0000400	C0000438
Description	18mm Silver Color Open Top Metal Cap (8mm hole) with 17.5mm Blue PTFE/White Silicone Septa 1.5mm Thick.	18mm Silver Color Closed Top Metal Cap with Blue PTFE/White Silicone Septa 1.5mm Thick.	Blue PTFE/White Silicone Septa 1.5mm thick.	Red PTFE/White Silicone Septa 1.5mm Thick. <b>(used for 18mm magnetic screw cap).</b>
	100pcs/pk			

### >ND 18 Pre-assembled



Ref.No.	C0000977	C0000976
Description	10mL Clear Glass Screw Headspace Vial 22.5x46mm 18mm Silver Color Open Top Metal Cap (8mm hole) with 17.5mm Blue PTFE/White Silicone Septa 1.5mm Thick Vial Cap Septa are pre-assembled together.	20mL Clear Glass Screw Headspace Vial 22.5x75mm 18mm Silver Color Open Top Metal Cap (8mm hole) with 17.5mm Blue PTFE/White Silicone Septa 1.5mm Thick Vial Cap Septa are pre-assembled together.
	100pcs/pk	

# ALWSCI<sup>®</sup> HEADSPACE VIALS & CLOSURES

# Crimp Headspace ND20

- ♦ GC Headspace technology for the analysis of volatile organic solids and liquid samples after gasification
- ♦ The headspace volume have 6ml, 10ml, 20ml clear/amber to choose, the bottom have flat, and rounded-flat.
- ♦ **Type of Cap:**
- ♦ Aluminum Cap, Bimetal cap, Magnetic crimp cap.
- ♦ **Type of Liner:**
- ♦ PTFE/silicone, Butyl/PTFE, Butyl, Butyl stopper, Pharma-fix liner.

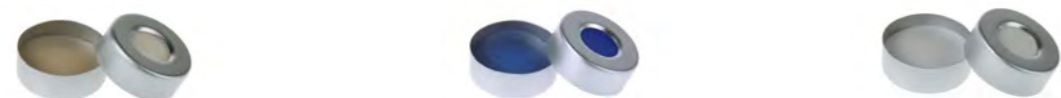


Ref.No.	C0000032	C0000033	C0000034	C0000035	C0000036
<b>Description</b>	6mL Clear Glass 22x38mm. 20mm Beveled Edge. Flat Bottom. Short Neck. Crimp Headspace Vial.	10mL Clear Glass 22.5x46mm. 20mm Beveled Edge. Flat Bottom. Crimp Headspace Vial.	10mL Clear Glass 22.5x46mm. 20mm Beveled Edge. Rounded-flat Bottom. Crimp Headspace Vial.	10mL Amber Glass 22.5x46mm. 20mm Beveled Edge. Flat Bottom. Crimp Headspace Vial.	20mL Clear Glass 22.5x75mm. 20mm Beveled Edge. Flat Bottom. Crimp Headspace Vial.
	100pcs/pk				



Ref.No.	C0000038	C0000039	C0000040	C0001877 ★
<b>Description</b>	20mL Clear Glass 22.5x75mm. 20mm Beveled Edge. Rounded-Flat Bottom. Crimp Headspace Vial.	20mL Clear Glass 22.5x75mm. 20mm Beveled Edge. Rounded-Flat Bottom. Crimp Headspace Vial. Short Neck.	20mL Amber Glass 22.5x75mm. 20mm Beveled Edge. Rounded-Flat Bottom. Crimp Headspace Vial. Short Neck.	20mL Clear Glass 22.5x75mm. 20mm Beveled Edge. Flat Bottom. Crimp Headspace Vial with Graduations.
	100pcs/pk			

## > ND20 Closures



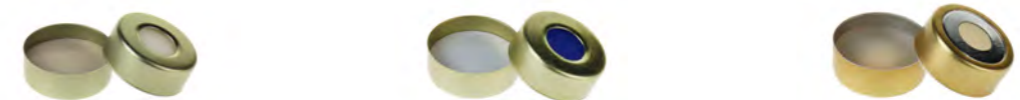
Ref.No.	C0000196	C0000197	C0000198
<b>Description</b>	20mm Open Top Aluminum Crimp Cap (10mm hole) with 20mm Natural PTFE/White Silicone Septa 3mm Thick.	20mm Open Top Aluminum Crimp Cap (10mm hole) with 20mm Natural PTFE/Blue Silicone Septa 3mm Thick.	20mm Open Top Aluminum Crimp Cap (10mm hole) with 20mm White PTFE/White Silicone Septa 3mm Thick.
	100pcs/pk		



Ref.No.	C0000199	C0000200	C0000201
<b>Description</b>	20mm Open Top Aluminum Crimp Cap (10mm hole) with 20mm White PTFE/Blue Silicone Septa 3mm Thick.	20mm Open Top Aluminum Crimp Cap (10mm hole) with 20mm Red PTFE/White Silicone Septa 3mm Thick.	20mm Open Top Aluminum Crimp Cap (10mm hole) with 20mm Natural PTFE/Natural Silicone Septa 3mm Thick.
	100pcs/pk		



Ref.No.	C0000206	C0000207	C0000951
<b>Description</b>	20mm Open Top Bi-Metallic Crimp Cap (8mm hole) Blue & Silver with 20mm Natural PTFE/White Silicone Septa 3mm Thick.	20mm Open Top Bi-Metallic Crimp Cap (8mm hole) Blue & Silver with 20mm Natural PTFE/Natural Silicone Septa 3mm Thick.	20mm Open Top Bi-Metallic Crimp Cap (8mm hole) Red & Silver with 20mm Natural PTFE/Natural Silicone Septa 3mm Thick.
	100pcs/pk		



Ref.No.	C0000205	C0000835	C0000952
<b>Description</b>	20mm Open Top Gold Magnetic Crimp Cap (10mm hole) with 20mm Natural PTFE/White Silicone Septa 3mm Thick.	20mm Open Top Gold Magnetic Crimp Cap (10mm hole) with 20mm White PTFE/Blue Silicone Septa 3mm Thick.	20mm Open Top Bi-Metallic Crimp Cap (8mm hole) Gold & Silver with 20mm Natural PTFE/Natural Silicone Septa 3mm Thick.
	100pcs/pk		



Ref.No.	C0000855	C0001012	C0000315 ★
<b>Description</b>	20.2mm Open Top Aluminum Crimp Cap (10mm hole) with Moulded Grey PTFE/Butyl Septa one ring 3mm Thick.	20.2mm Open Top Aluminum Crimp Cap (10mm hole) with Moulded Pharma-fix-septa Grey PTFE/Butyl 3mm thick.	20.2mm Open Top Aluminum Crimp Cap (pressure release) with Moulded Grey PTFE/Butyl Septa one ring 3mm Thick.
	100pcs/pk		

## > 20mm Butyl Septa



Ref.No.	C0000433	C0000407	C0000448	C0000449	C0000450	C0000423 ★
<b>Description</b>	20mm Moulded Grey Butyl Injection Stopper.	20mm Moulded Grey PTFE/Butyl Septa one ring 3mm thick.	20mm Moulded Grey Butyl Septa one ring. 3mm thick.	20mm Moulded Grey Butyl Septa both rings.	20mm Grey PTFE/Butyl without ring. 3mm thick.	20mm Moulded Pharma-fix-septa Grey PTFE/Butyl 3mm thick.
	100pcs/pk					



## Customized Service

- ◆ Logo printing, Package Label, Cap Color, Septa Size and Septa Color, all of them can be customized based on huge quantities.



Ref.No.	C0000750	C0000751	C0000752	C0000753
<b>Description</b>	2mL Clear Glass 12x32mm Flat Base 8-425 Screw Thread Vial with Label and ALWSCI Printing.	2mL Amber Glass 12x32mm Flat Base 8-425 Screw Thread Vial with Label and ALWSCI Printing.	2mL Clear Glass 12x32mm Flat Base 9-425 Screw Thread Vial with Label and ALWSCI Printing.	2mL Amber Glass 12x32mm Flat Base 9-425 Screw Thread Vial with Label and ALWSCI Printing.
	100pcs/pk.			



Ref.No.	C0000754	C0000755	C0000756	C0000757
<b>Description</b>	2mL Clear Glass Flat Base 11mm Crimp Vial Wide Opening with Label and ALWSCI Printing.	2mL Amber Glass Flat Base 11mm Crimp Vial Wide Opening with Label and ALWSCI Printing.	2mL Clear Glass Flat Base 11mm Snap Vial Wide Opening with Label and ALWSCI Printing.	2mL Amber Glass Flat Base 11mm Snap Vial Wide Opening with Label and ALWSCI Printing.
	100pcs/pk.			



Ref.No.	C0001055	C0001140	C0001415
<b>Description</b>	Blue PTFE/White Silicone Septa. 14.7x3mm (UltraClean).	11mm Transparent TEF/Butyl Red/ Natural Rubber Red-orange Septa.	24-400 Blue Open Top PP Screw Cap with 22mm Natural PTFE/White Silicone Septa 3mm Thick.
	100pcs/pk.		

★ OEM services of any other color caps are available.



# ALWSCI® SAMPLE VIALS & CLOSURES



# Sample Vials & Closures

## > Sample Vials & Closures

- ◆ Screw vials for storage purpose, vials with different volumes are available.
- ◆ Vial Color: Clear, Amber.
- ◆ Cap Color: White, Black, Red, Blue, Yellow, Green, etc.
- ◆ Septa material: PE, PTFE/Silicone, Silicone only, etc.
- ◆ Pre-assemble service is available.

<b>Ref.No.</b> C0000006	<b>C0000041</b>	<b>C0000024</b>	<b>C0000044</b>	<b>C0000048</b>	<b>C0000049</b>
<b>Description</b> 2mL Clear Glass Sample Vial 12x32mm 9-425 Screw Thread.	2mL Amber Glass Sample Vial 12x32mm 9-425 Screw Thread.	4mL Clear Glass Sample Vial 15x45mm 13-425 Screw Thread.	4mL Amber Glass Sample Vial 15x45mm 13-425 Screw Thread.	7mL Clear Glass Sample Vial 22x40mm 18-400 Screw Thread.	7mL Amber Glass Sample Vial 22x40mm 18-400 Screw Thread.
100pcs/pk					

<b>Ref.No.</b> C0000051	<b>C0000052</b>	<b>C0000053</b>	<b>C0000054</b>	<b>C0001370</b>	<b>C0001371</b>
<b>Description</b> 8mL Clear Glass Sample Vial 17x60mm 15-425 Screw Thread.	8mL Amber Glass Sample Vial 17x60mm 15-425 Screw Thread.	10mL Clear Glass Sample Vial 22x52mm 18-400 Screw Thread.	10mL Amber Glass Sample Vial 22x52mm 18-400 Screw Thread.	12mL Clear Glass Sample Vial 19x65mm 15-425 Screw Thread.	12mL Amber Glass Sample Vial 19x65mm 15-425 Screw Thread.
100pcs/pk					

<b>Ref.No.</b> C0000055	<b>C0000056</b>	<b>C0000057</b>	<b>C0000058</b>	<b>C0001222</b>	<b>C0001223</b>
<b>Description</b> 16mL Clear Glass Sample Vial 22x72.5mm 18-400 Screw Thread.	16mL Amber Glass Sample Vial 22x72.5mm 18-400 Screw Thread.	20mL Clear Glass Sample Vial 27.5x57mm 24-400 Screw Thread.	20mL Amber Glass Sample Vial 27.5x57mm 24-400 Screw Thread.	22mL Clear Glass Sample Vial 23x85mm. 20-400 Screw Thread.	22mL Amber Glass Sample Vial 23x85mm 20-400 Screw Thread.
100pcs/pk					

<b>Ref.No.</b> C0000059	<b>C0000060</b>	<b>C0000061</b>	<b>C0000062</b>	<b>C0000065</b>	<b>C0000066</b>
<b>Description</b> 30mL Clear Glass Sample Vial 27.5x84mm 24-400 Screw Thread.	30mL Amber Glass Sample Vial 27.5x84mm 24-400 Screw Thread.	40mL Clear Glass Sample Vial 27.5x95mm 24-400 Screw Thread.	40mL Amber Glass Sample Vial 27.5x95mm 24-400 Screw Thread.	60mL Clear Glass Sample Vial 27.5x140mm 24-400 Screw Thread.	60mL Amber Glass Sample Vial 27.5x140mm 24-400 Screw Thread.
100pcs/pk					

## > Storage Cap & Septa

<b>Ref.No.</b> C0000453	<b>C0000455</b>	<b>C0000864</b>	<b>C0001135</b>	<b>C0000858</b>	<b>C0000482</b>
<b>Description</b> 9-425 Blue Smooth Closed Top PP Cap.	13-425 Black Closed Top PP Cap.	13-425 White Closed Top PP Cap.	13-425 Red Closed Top PP Cap.	13-425 Green Closed Top PP Cap.	15-425 Black Closed Top PP Cap.
100pcs/pk					

<b>Ref.No.</b> C0000988	<b>C0000480</b>	<b>C0000456</b>	<b>C0001136</b>	<b>C0000859</b>	<b>C0000860</b>
<b>Description</b> 15-425 White Closed Top PP Cap.	18-400 Black Closed Top PP Cap.	18-400 White Closed Top PP Cap.	20-400 Black Closed Top PP Cap.	20-400 White Closed Top PP Cap.	22-400 Black Closed Top PP Cap.
100pcs/pk					

<b>Ref.No.</b> C0000475	<b>C0000481</b>	<b>C0000457</b>	<b>C0000402</b>	<b>C0000322</b>
<b>Description</b> 22-400 White Closed Top PP Cap.	24-400 Black Closed Top PP Cap.	24-400 White Closed Top PP Cap.	9-425 Red PTFE / White Silicone Septa 1.0mm Thick.	13-425 Red PTFE / White Silicone Septa 1.0mm Thick.
100pcs/pk				

<b>Ref.No.</b> C0001873	<b>C0000440</b>	<b>C0000958</b>	<b>C0000862</b>	<b>C0000443</b>
<b>Description</b> 15-425 Natural PTFE/White Silicone Septa 2.0mm Thick.	18-400 Natural PTFE/White Silicone Septa 1.5mm Thick.	20-400 Natural PTFE/White Silicone Septa 2.0mm Thick.	22-400 Natural PTFE/White Silicone Septa 2.0mm Thick.	24-400 Natural PTFE/White Silicone Septa 1.5mm Thick.
100pcs/pk				



## 24-400 Sample Vials With Closures

- If you are doing any sampling, testing, or validation, you need to make sure the results were not skewed by a contaminant that may have come from the container.
- Teflon lined caps and protective dust covers.
- Superior vial-to-vial consistency.



Ref.No.	C0001144	C0001417
Description	20mL Clear Glass Sample Vial. 27.5x58mm with 24-400 Black Closed Top PP Cap with 22mm Natural PTFE/White Silicone Septa 1.5mm thick.	20mL Amber Glass Sample Vial. 27.5x57mm. with 24-400 White Closed Top PP Cap with 22mm Natural PTFE/White Silicone Septa 1.5mm thick.
Vial+Cap+Septa are pre-assembled together.100pcs/pk.		



Ref.No.	C0001096	C0001125
Description	40mL Clear Glass Vial 24-400 White Open Top PP Screw Cap and Natural PTFE/White Silicone 3mm Thick Septa.	40mL Amber Glass Vial 24-400 White Open Top PP Screw Cap and Natural PTFE/White Silicone 3mm Thick Septa.
Vial + Cap + Septa will be pre-assembled together. 72pcs/pk.		



Ref.No.	C0001206	C0001207
Description	60mL Clear Glass Vial 24-400 White Open Top PP Screw Cap and Natural PTFE/White Silicone 3mm Thick Septa.	60mL Amber Glass Vial 24-400 White Open Top PP Screw Cap and Natural PTFE/White Silicone 3mm Thick Septa.
Vial + Cap + Septa will be pre-assembled together. 100pcs/pk.		

## Sample Vial Kit Package



Ref.No.	C0001316	C0001317
Description	4mL Clear Glass Sample Vial with 13-425 Red Closed Top PP Screw Cap and Red PTFE/White Silicone 1mm Thick Septa.	4mL Amber Glass Sample Vial with 13-425 Red Closed Top PP Screw Cap and Natural PTFE/White Silicone 1mm Thick Septa.
Vial + Cap + Septa are pre-assembled together. Packed with dividers. 144pcs/pk.		



Ref.No.	C0001327	C0001319
Description	8mL Clear Glass Sample Vial 17x60mm with 15-425 White Closed Top PP Cap with Natural PTFE/White Silicone Septa 1.0mm thick.	8mL Amber Glass Sample Vial 17x60mm with 15-425 White Closed Top PP Cap with Natural PTFE/White Silicone Septa 1.0mm thick.
Vial + Cap + Septa are pre-assembled together. Packed with dividers. 144pcs/pk.		



Ref.No.	C0001328	C0001321
Description	20mL Clear Glass Sample Vial. 27.5x58mm with 24-400 White Closed Top PP Cap with 22mm Natural PTFE/White Silicone Septa 1.5mm thick.	20mL Amber Glass Sample Vial. 27.5x58mm with 24-400 White Closed Top PP Cap with 22mm Natural PTFE/White Silicone Septa 1.5mm thick.
Vial + Cap + Septa are pre-assembled together. Packed with dividers. 144pcs/pk.		



Ref.No.	C0000802	C0000404
Description	20mL Clear Glass Vial. 27.5x58mm with 22-400 White Closed Top PP Cap and Silver Liner.	20mL Amber Glass Vial. 27.5x58mm with 22-400 White Closed Top PP Cap and Natural PTFE / White Silicone Septa.
Vial + Cap + Septa are pre-assembled together. Packed with dividers. 100pcs/pk		

## Glass Bottle & Tamper-Evident Closures ★★★

- Tamper evidence is vital for a number of industries, which helps consumers identify whether a bottle has been opened or not before purchasing.
- PTFE/PE liners with polypropylene caps have excellent sealing characteristics and good chemical resistance to acids, alcohols, alkalis, aqueous products, and solvents.
- Kindly reminder: tamper-evident cap with different color tamper-evident ring creates more easily identification.
- This kind of products are widely used for environmental lab samples, analytical lab samples, contaminant-intolerant chemicals, high value-added chemicals, acids, reagents, and etc.
- Come and choose ALWSCI tamper-evident bottles & closures, give customers peace of mind that the products they are buying have not been altered after leaving the manufacturer.

### > Glass Bottle

			
Ref. No. <b>C0000846</b>	<b>C0000843</b>	<b>C0001861</b>	<b>C0000845</b>
Description 5mL Amber Glass Bottle DIN-18 Tamper-Evident Screw Thread. 22.0x50.2mm.	10mL Amber Glass Bottle DIN-18 Tamper-Evident Screw Thread. 24.8x58.0mm.	15mL Amber Glass Bottle DIN-28 Tamper-Evident Screw Thread. 34.3x55.0mm.	20mL Amber Glass Bottle DIN-18 Tamper-Evident Screw Thread. 28.7x71.5mm.
			
Ref. No. <b>C0001725</b>	<b>C0001726</b>	<b>C0001727</b>	<b>C0001728</b>
Description 30mL Amber Glass Bottle DIN-28 Tamper-Evident Screw Thread. 36.8x68.0mm.	60mL Amber Glass Bottle DIN-28 Tamper-Evident Screw Thread. 38.5x94.5mm.	125mL Amber Glass Bottle DIN-28 Tamper-Evident Screw Thread. 48.7x114.8mm.	200mL Amber Glass Bottle DIN-28 Tamper-Evident Screw Thread. 57.6x134mm.
			
Ref. No. <b>C0001862</b>	<b>C0001863</b>	<b>C0001729</b>	<b>C0001864</b>
Description 75mL Amber Glass Bottle DIN-38 Tamper-Evident Screw Thread. 45.3x84.5mm.	200mL Amber Glass Bottle DIN-45 Tamper-Evident Screw Thread. 61.4x111.5mm.	500mL Amber Glass Bottle DIN-28 Tamper-Evident Screw Thread. 76.8x176.8mm.	500mL Amber Glass Bottle DIN-28 Tamper-Evident Screw Thread with Anti-slip grained design. 76.1x191.0mm.

### > 18mm Tamper-Evident Closures

		
Ref. No. <b>C0001730</b>	<b>C0001731</b>	<b>C0001732</b>
Description 18mm Red PP Tamper-Evident Cap with Natural PTFE/White PE Septa 1.5mm Thick.	18mm Black PP Tamper-Evident Cap with Natural PTFE/White PE Septa 1.5mm Thick.	18mm Blue PP Tamper-Evident Cap with Natural PTFE/White PE Septa 1.5mm Thick.

### > 28mm Tamper-Evident Closures

		
Ref. No. <b>C0001733</b>	<b>C0001734</b>	<b>C0001735</b>
Description 28mm Red PP Tamper-Evident Cap with Natural PTFE/White PE Septa 1.5mm Thick.	28mm Black PP Tamper-Evident Cap with Natural PTFE/White PE Septa 1.5mm Thick.	28mm Blue PP Tamper-Evident Cap with Natural PTFE/White PE Septa 1.5mm Thick.

### > 38mm & 45mm Tamper-Evident Closures

	
Ref. No. <b>C0001865</b>	<b>C0001866</b>
Description 38mm Red PP Tamper-Evident Cap with Natural PTFE/White PE Septa 1.5mm Thick.	45mm Red PP Tamper-Evident Cap with Natural PTFE/White PE Septa 1.5mm Thick.



## Narrow Mouth Bottle

- Boston bottles are widely used for packing of Pharmaceutical intermediate, High value-added chemicals, Fragrance sesame oil, and etc.
- The PTFE/silicone perfect sealing is suitable for long time storage and transportation, PE liner is for an economical choice.
- Pre-assemble service is available.



Ref.No.	C0000115	C0000116	C0000118	C0000119
<b>Description</b>	30mL Amber Glass 20-400 Boston Round Bottle. 32.8x78.58mm.	30mL Clear Glass 20-400 Boston Round Bottle. 32.8x78.58mm.	60mL Amber Glass 20-400 Boston Round Bottle. 38.6x93.66mm.	60mL Clear Glass 20-400 Boston Round Bottle. 38.6x93.66mm.
	48pcs/ctn.			



Ref.No.	C0000121	C0000122	C0000123	C0000124	C0000125
<b>Description</b>	120mL Amber Glass 22-400 Boston Round Bottle. 48.8x112.73mm.	120mL Clear Glass 22-400 Boston Round Bottle. 48.8x112.73mm.	250mL Amber Glass 24-400 Boston Round Bottle. 61.6x140.8mm.	500mL Amber Glass 28-400 Boston Round Bottle. 83x176.5mm.	1000mL Amber Glass 33-400 Boston Round Bottle. 94x219mm.
	24pcs/ctn.	24pcs/ctn.	30pcs/ctn.	12pcs/ctn.	8pcs/ctn.

### > Narrow Mouth Bottle Closures



Ref.No.	C0001126	C0001127	C0001128	C0001129
<b>Description</b>	20-400 Black Closed Top PP Cap with Natural PTFE/White Silicone Septa 2.0mm Thick.	20-400 Black Closed Top PP Cap with White PE Septa 1.0mm Thick.	22-400 Black Closed Top PP Cap with Natural PTFE/White Silicone Septa 2.0mm Thick.	22-400 Black Closed Top PP Cap with White PE Septa 1.0mm Thick.
	48pcs/pk.	48pcs/pk.	24pcs/pk.	24pcs/pk.



Ref.No.	C0001130	C0001131	C0000229	C0000230
<b>Description</b>	24-400 Black Closed Top PP Cap with Natural PTFE/White Silicone Septa 1.5mm Thick.	24-400 Black Closed Top PP Cap with White PE Septa 1.0mm Thick.	28-400 Black Closed Top PP Cap with Natural PTFE/White Silicone Septa 1.5mm Thick.	28-400 Black Closed Top PP Cap with White PE Septa 1.0mm Thick.
	30pcs/pk.	30pcs/pk.	12pcs/pk.	12pcs/pk.



Ref.No.	C0000231	C0000233	C0000235
<b>Description</b>	33-400 Black Closed Top PP Cap with Natural PTFE/White Silicone Septa 1.5mm Thick.	33-400 Black Closed Top PP Cap with White PTFE Septa 0.5mm Thick.	33-400 Black Closed Top PP Cap with White PE Septa 1.0mm Thick.
	8pcs/pk.	8pcs/pk.	8pcs/pk.

## Wide Mouth Bottle

- ♦ Wide mouth bottles are widely used for packing of Pharmaceutical intermediate, High value-added chemicals, etc.
- ♦ Offer Packaging customized service.



Ref.No.	C0000105	C0000106	C0000107	C0000108
Description	60mL Amber Glass 33-400 Wide Mouth Bottle 44.5x75.5mm.	75mL Amber Glass 38-400 Wide Mouth Bottle 45.3x82.5mm.	100mL Amber Glass 38-400 Wide Mouth Bottle 50x87.5mm.	120mL Amber Glass 38-400 Wide Mouth Bottle 52.8x95mm.
	48pcs/ctn.	192pcs/ctn.	24pcs/ctn.	24pcs/ctn.



C0000109	C0000110	C0000111	C0000112	C0000113
150mL Amber Glass 45-400 Wide Mouth Bottle 56x100mm.	200mL Amber Glass 45-400 Wide Mouth Bottle 61.4x109.5mm.	250mL Amber Glass 45-400 Wide Mouth Bottle 64x119mm.	300mL Amber Glass 53-400 Wide Mouth Bottle 68.3x126.4mm.	500mL Amber Glass 53-400 Wide Mouth Bottle 80.6x146.5mm.
24pcs/ctn.	24pcs/ctn.	24pcs/ctn.	24pcs/ctn.	12pcs/ctn.

### > Wide Mouth Bottle Closures



Ref.No.	C0000231	C0000233	C0000235
Description	33-400 Black Closed Top PP Cap with Natural PTFE/White Silicone Septa 1.5mm Thick.	33-400 Black Closed Top PP Cap with White PTFE Septa 0.5mm Thick.	33-400 Black Closed Top PP Cap with White PE Septa 1.0mm Thick.
		8pcs/pk.	



Ref.No.	C0000255	C0000256	C0000257
Description	38-400 Black Closed Top PP Cap with Natural PTFE/White Silicone Septa 1.5mm Thick.	38-400 Black Closed Top PP Cap with White PTFE Septa 0.5mm Thick.	38-400 Black Closed Top PP Cap with White PE Septa 1.0mm Thick.
		24pcs/pk.	



Ref.No.	C0000258	C0000259	C0000260
Description	45-400 Black Closed Top PP Cap with Natural PTFE/White Silicone Septa 1.5mm Thick.	45-400 Black Closed Top PP Cap with White PTFE Septa 0.5mm Thick.	45-400 Black Closed Top PP Cap with White PE Septa 1.0mm Thick.
		24pcs/pk.	



Ref.No.	C0000261	C0000262	C0000263
Description	53-400 Black Closed Top PP Cap with Natural PTFE/White Silicone Septa 1.5mm Thick.	53-400 Black Closed Top PP Cap with White PTFE Septa 0.5mm Thick.	53-400 Black Closed Top PP Cap with White PE Septa 1.0mm Thick.
		12pcs/pk.	

## Soil Sampling Jar ★

- ♦ The soil sampling jar is mainly used for the sampling and storage of solid soil, sludge or other high-value chemicals. In accordance with EPA method(detection of SVOC or VOC content in water and soil), as well as other methods.
- ♦ The cap is made of high-quality polypropylene by injection. Different colors are available, such as black, white and etc.
- ♦ The materials of liner are Polyethylene, Teflon or Teflon/Silicone, different materials for different requirements.
- ♦ The most important - the performance of sealing is perfect, which ensures that the sample is not contaminated by outside air and other components.



Ref.No.	C0001702	C0001705	C0001706	C0001709
Description	100mL 62×64mm. Wide Mouth Amber Glass Straight Sided Soil Sampling Jar White Closed Top PP Cap with White PE Septa 1.0mm Thick.	250mL 73×92mm. Wide Mouth Amber Glass Straight Sided Soil Sampling Jar Black Closed Top PP Cap with White PE Septa 1.0mm Thick.	500mL 91×100mm. Wide Mouth Amber Glass Straight Sided Soil Sampling Jar White Closed Top PP Cap with White PE Septa 1.0mm Thick.	1000mL 93×187mm. Wide Mouth Amber Glass Straight Sided Soil Sampling Jar Black Closed Top PP Cap with White PE Septa 1.0mm Thick.
	90pcs/ctn.	75pcs/ctn.	75pcs/ctn.	20pcs/ctn.





# ALWSCI<sup>®</sup> TOOLS

## GC Septa

- GC septa are used in gas chromatography (GC).
- These GC accessories need to introduce the sample without leakage and withstand the high-temperatures of laboratory ovens.

<b>Ref.No.</b>	<b>C0000437</b>	<b>C0000982</b>	<b>C0001086</b>	<b>C0000800</b>	<b>C0000993</b>
<b>Description</b>	Orange High Temp Ultra Low Bleed GC Septa 11x3mm Pre-Pierced. Used up to 320°C.	Blue Normal Silicone Septa 10.8x3mm. Used up to 250°C.	Blue Normal Silicone Septa 12.5x3mm. Used up to 250°C.	Orange High Temp Ultra Low Bleed GC Septa 11x3mm. Used up to 320°C.	Orange GC Plug Septa, Ultra Low Bleed Septa, Used Up To 320°C For Shimadzu.
	50pcs/pk				

## Vial Rack

- Easy handling and transportation of sample vials.
- Stable standing position because of solid construction.

<b>Ref.No.</b>	<b>C0001265</b>	<b>C0001565</b>	<b>C0000096</b>
<b>Description</b>	Blue PP Vial Rack 50 Positions for 2mL Vials. With Printing ALWSCI Logo in White.	Blue PP Vial Rack 50 Positions for 4mL Vials. With Printing ALWSCI Logo in White.	PP Vial Rack for EPA VOA Vials White Color.
		1pc/pk	

<b>Ref.No.</b>	<b>C0001819 ★</b>	<b>C0001820 ★</b>	<b>C0001822 ★</b>
<b>Description</b>	PP Vial Rack 50 Positions for 2mL Vials White Color.	PP Vial Rack 50 Positions for 2mL Vials Red Color.	PP Vial Rack 50 Positions for 2mL Vials Orange Color.
		1pc/pk	

## Crimper & Decrimper

<b>Ref.No.</b>	<b>C0000265</b>	<b>C0000264</b>	<b>C0000266</b>	<b>C0000267</b>	<b>C0000268</b>	<b>C0000269</b>	<b>C0001385</b>
<b>Description</b>	Crimper for 11mm Aluminum Crimp Cap Stainless Steel.	Crimper for 20mm Aluminum Crimp Cap Stainless Steel.	Stainless Steel Crimper for 13mm Flip off Cap.	Stainless Steel Crimper for 20mm Flip off Cap.	Decrimper for 11mm Aluminum Crimp Cap Stainless Steel.	Decrimper for 20mm Aluminum Crimp Cap Stainless Steel.	Decrimper for 11mm/20mm Crimp Cap (Plier Type).
	1pc/pk						



**Labfil<sup>®</sup>**  
**WELDED SYRINGE FILTER**

## Welded Syringe Filter

φ13mm φ25mm φ30mm  
Pore size:0.22μm/0.45μm



- Filtration is achieved by pushing the sample through the membrane with a syringe or other luer-connection device.
- Syringe Filters allow you to control the rate off low, which can be critical with delicate samples. It also allows you to filter into nearly any tube, vial, or column that represents the next step in your analysis.

## Syringe Filter Selection Guide

- Syringe filters are used for many routine preparation steps in laboratories all over the world.
- They are convenient, ready-to use disposables for removal of particles from solutions and gases.
- Labfil<sup>®</sup> syringe filters are for a wide range of applications.
- The filters are clean and safe as they are virtually free of leachables and extractables and reliably remove particles and microorganisms without any leakage.

Syringe Filter Capacities	Sample Volume
13mm Syringe Filter	less or equal 10mL
25mm Syringe Filter	less or equal 100mL
30mm Syringe Filter	less or equal 150mL

Pre-Cut Membrane Capacities	Sample Volume
13mm Pre-Cut Membranes	up to 20mL
25mm Pre-Cut Membranes	up to 100mL
47mm Pre-Cut Membranes	multi-liter

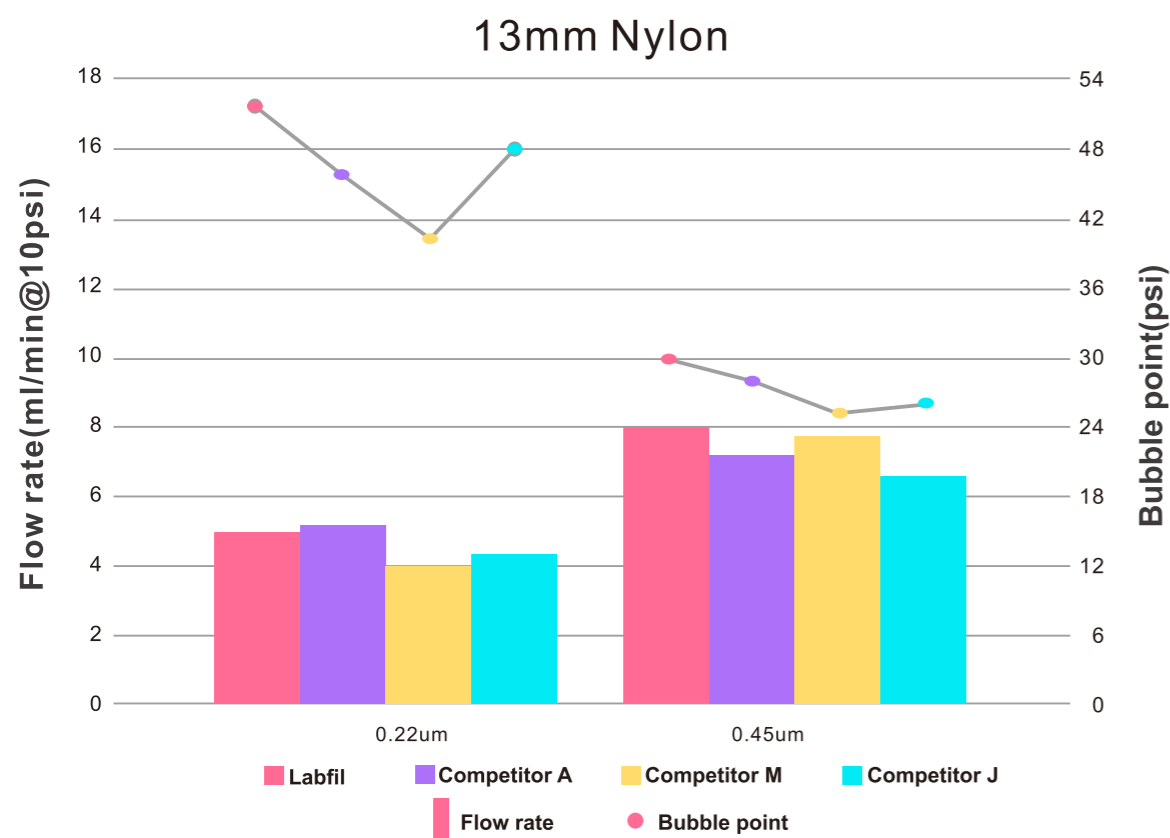


## Membrane Selection Guide

- Choosing a membrane filter is based on the size and amount of particulate in the sample, the membrane's chemical compatibility with the sample matrix, and potential interactions (binding) between the membranes and the sample components. This table offers general guidelines on membrane characteristics and applications.

### Membrane Selection Guide

Membrane Type	Features	Common Uses
Nylon	Good chemical compatibility and very low extractables	General filtrationsterilization, HPLC sample prep
Polytetrafluoroethylene (PTFE)	Compatible with strong acids and aggressive solvents	Gas, Air, and Solvent filtration
Polyvinylidene Fluoride (PVDF)	Good flow rate characteristics. Ideal for chromatography applications.	HPLC sample preparation and General filtration



## Nylon

- High mechanical and tensile strength.
- Used for most organic solvents and mid-polar liquids.
- Two types in pore size:0.22 $\mu$ m and 0.45 $\mu$ m.
- Three types in filter size:13mm, 25mm and 30mm.



### Typical data

Material	Nylon	
Material of housing	pp	
Effective filtration area(cm <sup>2</sup> )	13mm/1.13cm <sup>2</sup>	25mm/4.15cm <sup>2</sup>
Pore size( $\mu$ m)	0.22/0.45	
Process volume(ml)	<10ml(13mm)	<100ml(25mm)
Maximum Operating Temperature	100°C	
Maximum Operating Pressure(psi)	87psi	



Ref.No.	C0000277	C0000278	C0000279	C0000280
Description	13mm Nylon Welded Syringe Filter 0.22um with Printing.	13mm Nylon Welded Syringe Filter 0.45um with Printing.	25mm Nylon Welded Syringe Filter 0.22um with Printing.	25mm Nylon Welded Syringe Filter 0.45um with Printing.
	100pcs/pk			



Ref.No.	C0000565	C0000566
Description	30mm Nylon Welded Syringe Filter 0.22um with Printing.	30mm Nylon Welded Syringe Filter 0.45um with Printing.
	100pcs/pk	

### Features

- This Nylon+PP pre-filter provides two times greater throughput than standard filter without pre-filtration.
- One of the most commonly used membranes; broad compatibility with aqueous and organic solvents, with stable hydrophilicity, not suitable for highly acidic samples.

### Applications

- Used for most organic solvents mixtures and mid-polar liquids.
- Chemical filtration and Beverage filtration.
- Note: Nylon binds protein, do not use when high protein recovery is desired.

## PTFE Hydrophilic

- For removing particulates, reducing signal-to-noise ratios and maintaining flat baselines.
- Filtering aqueous and organic solutions.
- Two types in pore size: 0.22 $\mu$ m and 0.45 $\mu$ m.
- Three types in filter size: 13mm, 25mm and 30mm.



### Typical data

Material	PTFE Hydrophilic	
Material of housing	PP	
Effective filtration area(cm <sup>2</sup> )	13mm/1.13cm <sup>2</sup>	25mm/4.15cm <sup>2</sup>
Pore size( $\mu$ m)	0.22/0.45	
Process volume(ml)	<10ml(13mm)	<100ml(25mm)
Maximum Operating Temperature	130°C	
Maximum Operating Pressure(psi)	87psi	



Ref.No.	C0000281	C0000282	C0000283	C0000284
Description	13mm PTFE Hydrophilic Welded Syringe Filter 0.22 $\mu$ m with Printing.	13mm PTFE Hydrophilic Welded Syringe Filter 0.45 $\mu$ m with Printing.	25mm PTFE Hydrophilic Welded Syringe Filter 0.22 $\mu$ m with Printing.	25mm PTFE Hydrophilic Welded Syringe Filter 0.45 $\mu$ m with Printing.
	100pcs/pk			



Ref.No.	C0000567	C0000568
Description	30mm PTFE Hydrophilic Welded Syringe Filter 0.22 $\mu$ m with Printing.	30mm PTFE Hydrophilic Welded Syringe Filter 0.45 $\mu$ m with Printing.
	100pcs/pk	

### Features

- This PTFE+PP pre-filter provides two times greater throughput than standard filter without pre-filtration.
- Broad chemical compatibility choose for filtering aqueous and organic solutions low protein binding.

### Applications

- Industrial Chromatography.
- Filtration of aqueous solutions as well as organic solvents and chemicals.

## PTFE Hydrophobic

- High mechanical and tensile strength.
- Used for most organic solvents and mid-polar liquids.
- Two types in pore size: 0.22 $\mu$ m and 0.45 $\mu$ m.
- Three types in filter size: 13mm, 25mm and 30mm.



### Typical data

Material	PTFE Hydrophobic	
Material of housing	PP	
Effective filtration area(cm <sup>2</sup> )	13mm/1.13cm <sup>2</sup>	25mm/4.15cm <sup>2</sup>
Pore size( $\mu$ m)	0.22/0.45	
Process volume(ml)	<10ml(13mm)	<100ml(25mm)
Maximum Operating Temperature	130°C	
Maximum Operating Pressure(psi)	87psi	



Ref.No.	C0000297	C0000298	C0000299	C0000300
Description	13mm PTFE Hydrophobic Welded Syringe Filter 0.22 $\mu$ m with Printing.	13mm PTFE Hydrophobic Welded Syringe Filter 0.45 $\mu$ m with Printing.	25mm PTFE Hydrophobic Welded Syringe Filter 0.22 $\mu$ m with Printing.	25mm PTFE Hydrophobic Welded Syringe Filter 0.45 $\mu$ m with Printing.
	100pcs/pk			



Ref.No.	C0000574	C0000575
Description	30mm PTFE Hydrophobic Welded Syringe Filter 0.22 $\mu$ m with Printing.	30mm PTFE Hydrophobic Welded Syringe Filter 0.45 $\mu$ m with Printing.
	100pcs/pk	

### Features

- This PTFE+PP pre-filter provides two times greater throughput than standard filter without pre-filtration.
- Hydrophobic PTFE membrane has great temperature resistance.
- Suitable for Solvents/Gases/Acids/Bases.

### Applications

- Degassing/Clarifying aqueous samples.
- Removal of protein precipitates.
- Strong acid solvent filtration and Alkali solvent filtration.
- Biofuel analysis.



## PVDF Hydrophilic

- Low protein-binding for filtration of non-aggressive aqueous and mild organic solutions.
- Low UV absorbing extractables and low nonspecific protein binding.
- Two types in pore size:0.22µm and 0.45µm.
- Three types in filter size:13mm, 25mm and 30mm.



### Typical data

Material	PVDF Hydrophilic	
Material of housing	PP	
Effective filtration area(cm <sup>2</sup> )	13mm/1.13cm <sup>2</sup>	25mm/4.15cm <sup>2</sup>
Pore size(µm)	0.22/0.45	
Process volume(ml)	<10ml(13mm)	<100ml(25mm)
Maximum Operating Temperature	100°C	
Maximum Operating Pressure(psi)	87psi	



Ref.No.	C0000289	C0000290	C0000291	C0000292
Description	13mm PVDF Hydrophilic Welded Syringe Filter 0.22µm with Printing.	13mm PVDF Hydrophilic Welded Syringe Filter 0.45µm with Printing.	25mm PVDF Hydrophilic Welded Syringe Filter 0.22µm with Printing.	25mm PVDF Hydrophilic Welded Syringe Filter 0.45µm with Printing.
	100pcs/pk			



Ref.No.	C0000571	C0000396
Description	30mm PVDF Hydrophilic Welded Syringe Filter 0.22µm with Printing.	30mm PVDF Hydrophilic Welded Syringe Filter 0.45µm with Printing.
	100pcs/pk	

### Features

- This PVDF +PP pre-filter provides two times greater throughput than standard filter without pre-filtration.
- Hydrophilic membrane with good solvent resistance.

### Applications

- Sterilizing/Clarifying filtration of biological solutions.
- Excellent chemical compatibility, even with aggressive acids and alcohols.
- Filtration of samples where high protein recovery is desired.

## PVDF Hydrophobic

- Filtration of water-soluble oligomers and polymers, e.g. protein solutions.
- Filtration of hydrophobic substances in different organic solvents.
- Two types in pore size:0.22µm and 0.45µm.
- Three types in filter size:13mm, 25mm and 30mm.



### Typical data

Material	PVDF Hydrophobic	
Material of housing	PP	
Effective filtration area(cm <sup>2</sup> )	13mm/1.13cm <sup>2</sup>	25mm/4.15cm <sup>2</sup>
Pore size(µm)	0.22/0.45	
Process volume(ml)	<10ml(13mm)	<100ml(25mm)
Maximum Operating Temperature	100°C	
Maximum Operating Pressure(psi)	87psi	



Ref.No.	C0000285	C0000286	C0000287	C0000288
Description	13mm PVDF Hydrophobic Welded Syringe Filter 0.22µm with Printing.	13mm PVDF Hydrophobic Welded Syringe Filter 0.45µm with Printing.	25mm PVDF Hydrophobic Welded Syringe Filter 0.22µm with Printing.	25mm PVDF Hydrophobic Welded Syringe Filter 0.45µm with Printing.
	100pcs/pk			



Ref.No.	C0000569	C0000570
Description	30mm PVDF Hydrophobic Welded Syringe Filter 0.22µm with Printing.	30mm PVDF Hydrophobic Welded Syringe Filter 0.45µm with Printing.
	100pcs/pk	

### Features

- This PVDF + PP pre-filter provides two times greater throughput than standard filter without pre-filtration.
- This membrane features stability and hydrophobic interactions which is similar to PTFE.

### Applications

- Gas filtration, Vapor filtration, High-temperature filtration.
- Food industry and Medicine filtration.

## CA

- CA membranes are used in tissue culture media filtration.
- Ideally suited for general filtration and biological/clinical analysis requiring maximum protein recovery.
- High temperature stability can be used with heated liquids.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm and 30mm.



### Typical data

Material	CA	
Material of housing	PP	
Effective filtration area(cm <sup>2</sup> )	13mm/1.13cm <sup>2</sup>	25mm/4.15cm <sup>2</sup>
Pore size(µm)	0.22/0.45	
Process volume(ml)	<10ml(13mm)	<100ml(25mm)
Maximum Operating Temperature	50°C	
Maximum Operating Pressure(psi)	87psi	



Ref.No.	C0000760	C0000761	C0000301	C0000302
Description	13mm CA Welded Syringe Filter 0.22µm with Printing.	13mm CA Welded Syringe Filter 0.45µm with Printing.	25mm CA Welded Syringe Filter 0.22µm with Printing.	25mm CA Welded Syringe Filter 0.45µm with Printing.
	100pcs/pk			



Ref.No.	C0000576	C0000577
Description	30mm CA Welded Syringe Filter 0.22µm with Printing.	30mm CA Welded Syringe Filter 0.45µm with Printing.
	100pcs/pk	

### Features

- This CA+PP pre-filter provides two times greater throughput than standard filter without pre-filtration.
- Naturally hydrophilic membrane filter.
- Low protein binding: great for protein solutions, such as protein isolation pre-filtration.
- Suitable for ground water filtration.
- Uniform pore size structure.

### Applications

- Filtration of liquid samples and some organic solvents.
- Cell retention and particle retention.
- Light scattering measurement.
- Sterilization of liquids.

## PES

- High flow rates (liquids), low protein binding, low concentrations of extractable substances.
- Low-affinity for proteins and extractable with substantially faster flow rates than PVDF; suitable for pre-filtration and filtration of buffers and culture media.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm and 30mm.



### Typical data

Material	PES	
Material of housing	PP	
Effective filtration area(cm <sup>2</sup> )	13mm/1.13cm <sup>2</sup>	25mm/4.15cm <sup>2</sup>
Pore size(µm)	0.22/0.45	
Process volume(ml)	<10ml(13mm)	<100ml(25mm)
Maximum Operating Temperature	90°C	
Maximum Operating Pressure(psi)	87psi	



Ref.No.	C0000293	C0000294	C0000295	C0000296
Description	13mm PES Welded Syringe Filter 0.22µm with Printing.	13mm PES Welded Syringe Filter 0.45µm with Printing.	25mm PES Welded Syringe Filter 0.22µm with Printing.	25mm PES Welded Syringe Filter 0.45µm with Printing.
	100pcs/pk			



Ref.No.	C0000572	C0000573
Description	30mm PES Welded Syringe Filter 0.22µm with Printing.	30mm PES Welded Syringe Filter 0.45µm with Printing.
	100pcs/pk	

### Features

- This PES+PP pre-filter provides two times greater throughput than standard filter without pre-filtration.
- Faster flow rate than PVDF.
- Excellent thermal resistance and chemical resistance.

### Applications

- PES is certified for ion chromatography; tissue culture media; filtration of proteins and nucleic acids.
- Suitable for filtration of aqueous solution with high throughput.



## RC

- The best option for reliable and leachable free sterilisation of liquids.
- The very low non-specific binding characteristics of this membrane makes it a perfect choice for biomolecule solutions and other dissolved substances.
- Two types in pore size: 0.22 $\mu$ m and 0.45 $\mu$ m.
- Three types in filter size: 13mm, 25mm and 30mm.



### Typical data

Material	RC	
Material of housing	pp	
Effective filtration area(cm <sup>2</sup> )	13mm/1.13cm <sup>2</sup>	25mm/4.15cm <sup>2</sup>
Pore size( $\mu$ m)	0.22/0.45	
Process volume(ml)	<10ml(13mm)	<100ml(25mm)
Maximum Operating Temperature	100°C	
Maximum Operating Pressure(psi)	87psi	



Ref.No.	C0001179	C0001180	C0001181	C0001182
Description	13mm RC Welded Syringe Filter 0.22 $\mu$ m.	13mm RC Welded Syringe Filter 0.45 $\mu$ m.	25mm RC Welded Syringe Filter 0.22 $\mu$ m.	25mm RC Welded Syringe Filter 0.45 $\mu$ m.
	100pcs/pk			

### Features

- This RC+PP pre-filter provides two times greater throughput than standard filter without pre-filtration.
- Outperforming chemical compatibility choose for biomolecule solutions and other dissolved substances.

### Applications

- Industrial Chromatography.
- Filtration of aqueous solutions as well as organic solvents and chemicals.

Labfil<sup>®</sup>

ECONOMY SYRINGE FILTER



## Economy Syringe Filter

φ13mm φ25mm φ33mm

Pore size:0.22μm/0.45μm



## Economy Syringe Filter

- In order to meet different customers' request, Labfil® supply the syringe filters with outer ring as well.
- It's available in many different pore sizes and with several hydrophilic or hydrophobic membrane materials.
- More Economic.
- Reliable removal of microorganisms and particles from liquids for HPLC sample preparation.
- High mechanical and tensile strength.

Type	Color 0.45μm	Color 0.22μm
MCE	Green	Light Green
NY	Yellow	Light Yellow
PES	Green	Light Green
PVDF(Hydrophilic/Hydrophobic)	Purple	Light Purple
PTFE(Hydrophilic/Hydrophobic)	Red	Pink

## Nylon

- High mechanical and tensile strength.
- Universal application for analytical procedures.
- Two types in pore size:0.22μm and 0.45μm.
- Three types in filter size:13mm, 25mm and 33mm.



### Typical data

Material	Nylon	
Material of housing	pp	
Effective filtration area(cm <sup>2</sup> )	13mm/1.13cm <sup>2</sup>	25mm/4.15cm <sup>2</sup>
Pore size(μm)	0.22/0.45	
Process volume(ml)	<10ml(13mm)	<100ml(25mm)
Maximum Operating Temperature	100°C	
Maximum Operating Pressure(psi)	87psi	



Ref.No.	C0000638	C0000639	C0000640	C0000641
Description	13mm Nylon Syringe Filter 0.22um with Outer Ring and Printing.	13mm Nylon Syringe Filter 0.45um with Outer Ring and Printing.	25mm Nylon Syringe Filter 0.22um with Outer Ring and Printing.	25mm Nylon Syringe Filter 0.45um with Outer Ring and Printing.
	100pcs/pk			



Ref.No.	C0000662	C0000663
Description	33mm Nylon Syringe Filter 0.22um with Outer Ring and Printing.	33mm Nylon Syringe Filter 0.45um with Outer Ring and Printing.
	100pcs/pk	

### Features

- One of the most commonly used membranes.
- Broad compatibility with aqueous and organic solvents, with stable hydrophilicity, not suitable for highly acidic samples.

### Applications

- Used for most organic solvents mixtures and mid-polar liquids.
- Chemical filtration and Beverage filtration.
- Note: Nylon binds protein, do not use when high protein recovery is desired.



## PTFE Hydrophobic

- Hydrophobic PTFE syringe filters have broad chemical compatibility and high pH resistance.
- Versatile filters for use with aggressive organic solvent-based solutions and are especially ideal for HPLC sample preparation.
- Two types in pore size: 0.22 $\mu$ m and 0.45 $\mu$ m.
- Three types in filter size: 13mm, 25mm and 33mm.



### Typical data

Material	PTFE Hydrophobic	
Material of housing	pp	
Effective filtration area(cm <sup>2</sup> )	13mm/1.13cm <sup>2</sup>	25mm/4.15cm <sup>2</sup>
Pore size( $\mu$ m)	0.22/0.45	
Process volume(ml)	<10ml(13mm)	<100ml(25mm)
Maximum Operating Temperature	130°C	
Maximum Operating Pressure(psi)	87psi	



Ref.No.	C0000646	C0000647	C0000648	C0000649
Description	13mm PTFE Hydrophobic Syringe Filter 0.22 $\mu$ m with Outer Ring and Printing.	13mm PTFE Hydrophobic Syringe Filter 0.45 $\mu$ m with Outer Ring and Printing.	25mm PTFE Hydrophobic Syringe Filter 0.22 $\mu$ m with Outer Ring and Printing.	25mm PTFE Hydrophobic Syringe Filter 0.45 $\mu$ m with Outer Ring and Printing.
	100pcs/pk			



Ref.No.	C0000667	C0000666
Description	33mm PTFE Hydrophobic Syringe Filter 0.22 $\mu$ m with Outer Ring and Printing.	33mm PTFE Hydrophobic Syringe Filter 0.45 $\mu$ m with Outer Ring and Printing.
	100pcs/pk	

### Features

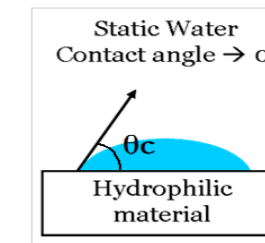
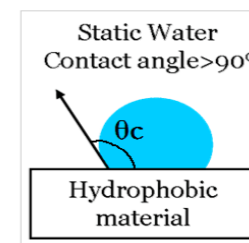
- Hydrophobic PTFE membrane has great temperature resistance.
- Suitable for Solvents/Gases/Acids/Bases.
- Excellent chemical compatibility for filtering harsh chemicals that destroy other membrane materials and ideal for aerosol sampling.

### Applications

- Degassing/Clarifying aqueous samples.
- Removal of protein precipitates.
- Strong acid solvent filtration and Alkali solvent filtration.
- Biofuel analysis.

## PTFE Hydrophilic

- Hydrophilic materials are obtained through process improvement.
- Hydrophilic material has a great affinity for water and it's easily wetted by water because of the surface with water molecules to form intermolecular forces.



- High mechanical and tensile strength.
- Used for most organic solvents and mid-polar liquids.
- Two types in pore size: 0.22 $\mu$ m and 0.45 $\mu$ m.
- Three types in filter size: 13mm, 25mm and 33mm.



### Typical data

Material	PTFE Hydrophilic	
Material of housing	pp	
Effective filtration area(cm <sup>2</sup> )	13mm/1.13cm <sup>2</sup>	25mm/4.15cm <sup>2</sup>
Pore size( $\mu$ m)	0.22/0.45	
Process volume(ml)	<10ml(13mm)	<100ml(25mm)
Maximum Operating Temperature	130°C	
Maximum Operating Pressure(psi)	87psi	



Ref.No.	C0000642	C0000643	C0000644	C0000645
Description	13mm PTFE Hydrophilic Syringe Filter 0.22 $\mu$ m with Outer Ring and Printing.	13mm PTFE Hydrophilic Syringe Filter 0.45 $\mu$ m with Outer Ring and Printing.	25mm PTFE Hydrophilic Syringe Filter 0.22 $\mu$ m with Outer Ring and Printing.	25mm PTFE Hydrophilic Syringe Filter 0.45 $\mu$ m with Outer Ring and Printing.
	100pcs/pk			



Ref.No.	C0000664	C0000665
Description	33mm PTFE Hydrophilic Syringe Filter 0.22 $\mu$ m with Outer Ring and Printing.	33mm PTFE Hydrophilic Syringe Filter 0.45 $\mu$ m with Outer Ring and Printing.
	100pcs/pk	

### Features

- Broad chemical compatibility choose for filtering aqueous and organic solutions low protein binding.
- Low IC extractables.

### Applications

- Industrial Chromatography.
- Filtration of aqueous solutions as well as organic solvents and chemicals.

## PVDF Hydrophobic

- Filtration of water-soluble oligomers and polymers, e.g. protein solutions.
- Filtration of hydrophobic substances in different organic solvents.
- Two types in pore size: 0.22 $\mu$ m and 0.45 $\mu$ m.
- Three types in filter size: 13mm, 25mm and 33mm.



### Typical data

Material	PVDF Hydrophobic	
Material of housing	pp	
Effective filtration area(cm <sup>2</sup> )	13mm/1.13cm <sup>2</sup>	25mm/4.15cm <sup>2</sup>
Pore size( $\mu$ m)	0.22/0.45	
Process volume(ml)	<10ml(13mm)	<100ml(25mm)
Maximum Operating Temperature	100°C	
Maximum Operating Pressure(psi)	87psi	



Ref.No.	C0000654	C0000655	C0000656	C0000657
Description	13mm PVDF Hydrophobic Syringe Filter 0.22 $\mu$ m with Outer Ring and Printing.	13mm PVDF Hydrophobic Syringe Filter 0.45 $\mu$ m with Outer Ring and Printing.	25mm PVDF Hydrophobic Syringe Filter 0.22 $\mu$ m with Outer Ring and Printing.	25mm PVDF Hydrophobic Syringe Filter 0.45 $\mu$ m with Outer Ring and Printing.
	100pcs/pk			



Ref.No.	C0000670	C0000671
Description	33mm PVDF Hydrophobic Syringe Filter 0.22 $\mu$ m with Outer Ring and Printing.	33mm PVDF Hydrophobic Syringe Filter 0.45 $\mu$ m with Outer Ring and Printing.
	100pcs/pk	

### Features

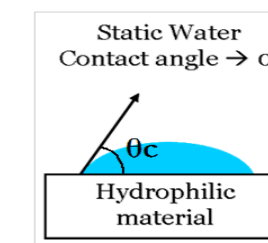
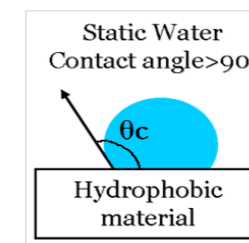
- This membrane features stability and hydrophobic interactions which is similar to PTFE.
- Naturally hydrophobic membrane provides excellent flow rates and high loading.
- Exceptional temperature stability provides extended sampling range over other membranes.

### Applications

- Gas filtration, Vapor filtration, High-temperature filtration.
- Food industry and Medicine filtration.

## PVDF Hydrophilic

- Hydrophilic materials are obtained through process improvement.
- Hydrophilic material has a great affinity for water and it's easily wetted by water because of the surface with water molecules to form intermolecular forces.



- Low protein-binding for filtration of non-aggressive aqueous and mild organic solutions.
- Low UV absorbing extractables and low nonspecific protein binding.
- Two types in pore size: 0.22 $\mu$ m and 0.45 $\mu$ m.
- Three types in filter size: 13mm, 25mm and 33mm.



### Typical data

Material	PVDF Hydrophilic	
Material of housing	pp	
Effective filtration area(cm <sup>2</sup> )	13mm/1.13cm <sup>2</sup>	25mm/4.15cm <sup>2</sup>
Pore size( $\mu$ m)	0.22/0.45	
Process volume(ml)	<10ml(13mm)	<100ml(25mm)
Maximum Operating Temperature	100°C	
Maximum Operating Pressure(psi)	87psi	



Ref.No.	C0000650	C0000651	C0000652	C0000653
Description	13mm PVDF Hydrophilic Syringe Filter 0.22 $\mu$ m with Outer Ring and Printing.	13mm PVDF Hydrophilic Syringe Filter 0.45 $\mu$ m with Outer Ring and Printing.	25mm PVDF Hydrophilic Syringe Filter 0.22 $\mu$ m with Outer Ring and Printing.	25mm PVDF Hydrophilic Syringe Filter 0.45 $\mu$ m with Outer Ring and Printing.
	100pcs/pk			



Ref.No.	C0000668	C0000669
Description	33mm PVDF Hydrophilic Syringe Filter 0.22 $\mu$ m with Outer Ring and Printing.	33mm PVDF Hydrophilic Syringe Filter 0.45 $\mu$ m with Outer Ring and Printing.
	100pcs/pk	

### Features

- Hydrophilic membrane with good solvent resistance.
- It has superior performance to prevent leak of sample solvent and can promise membrane area being used in a large filtration area.

### Applications

- Sterilizing/Clarifying filtration of biological solutions.
- Excellent chemical compatibility, even with aggressive acids and alcohols.
- Filtration of samples where high protein recovery is desired.



## MCE



Ref.No.	C0001239	C0001240	C0001241	C0001242
Description	13mm MCE Syringe Filter 0.22um with Outer Ring and Printing.	13mm MCE Syringe Filter 0.45um with Outer Ring and Printing.	25mm MCE Syringe Filter 0.22um with Outer Ring and Printing.	25mm MCE Syringe Filter 0.45um with Outer Ring and Printing.
	100pcs/pk			

## CA



Ref.No.	C0000780	C0000781	C0000782	C0000783
Description	13mm CA Syringe Filter 0.22um with Outer Ring and Printing.	13mm CA Syringe Filter 0.45um with Outer Ring and Printing.	25mm CA Syringe Filter 0.22um with Outer Ring and Printing.	25mm CA Syringe Filter 0.45um with Outer Ring and Printing.
	100pcs/pk			

- Biologically inert mixtures of cellulose acetate and cellulose nitrate.
- Membranes in analytical and research applications.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm.



### Typical data

Material	MCE/CA	
Material of housing	pp	
Effective filtration area(cm <sup>2</sup> )	13mm/1.13cm <sup>2</sup>	25mm/4.15cm <sup>2</sup>
Pore size(µm)	0.22/0.45	
Process volume(ml)	<10ml(13mm)	<100ml(25mm)
Maximum Operating Temperature	50°C	
Maximum Operating Pressure(psi)	87psi	

### Features

- Ideal for capturing and culturing microorganisms in the Water and wastewater industry.
- Used to determine particulate contamination of lubricating oil and hydraulic fluid in patch test kits.
- Compatible with gamma irradiation.

### Applications

- Appropriate for bacterial culturing, including E. coli culturing.
- Biologically inert with good thermal stability.
- Uniform microporous structure results in high flow rates when used for filtering.

## PES

- High mechanical and tensile strength.
- Used for most organic solvents and mid-polar liquids.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm and 33mm.



### Typical data

Material	PES	
Material of housing	pp	
Effective filtration area(cm <sup>2</sup> )	13mm/1.13cm <sup>2</sup>	25mm/4.15cm <sup>2</sup>
Pore size(µm)	0.22/0.45	
Process volume(ml)	<10ml(13mm)	<100ml(25mm)
Maximum Operating Temperature	90°C	
Maximum Operating Pressure(psi)	87psi	



Ref.No.	C0000658	C0000659	C0000660	C0000661
Description	13mm PES Syringe Filter 0.22um with Outer Ring and Printing.	13mm PES Syringe Filter 0.45um with Outer Ring and Printing.	25mm PES Syringe Filter 0.22um with Outer Ring and Printing.	25mm PES Syringe Filter 0.45um with Outer Ring and Printing.
	100pcs/pk			



Ref.No.	C0000672	C0000673
Description	33mm PES Syringe Filter 0.22um with Outer Ring and Printing.	33mm PES Syringe Filter 0.45um with Outer Ring and Printing.
	100pcs/pk	

### Features

- Excellent thermal resistance and chemical resistance.
- Having high flow rates thanks to their symmetric structure .
- A low protein adsorption, recommended for filtration of protein filtration as well as aqueous solutions filtration.
- The low level extractables makes them suitable for environmental analysis.

### Applications

- PES is certified for ion chromatography; tissue culture media; filtration of proteins and nucleic acids.
- Suitable for filtration of aqueous solution with high throughput.

## Sterile Welded Syringe Filter

### Nylon

- 100% integrity tested.
- Individually packaged.
- Ideal for sterile filtration.
- Low extractables, high protein binding; recommended for alcohols and weak solvents.



Ref.No.	C0000484	C0000485	C0000486	C0000487
Description	Sterile 13mm Nylon Welded Syringe Filter 0.22um with Printing.	Sterile 13mm Nylon Welded Syringe Filter 0.45um with Printing.	Sterile 25mm Nylon Welded Syringe Filter 0.22um with Printing.	Sterile 25mm Nylon Welded Syringe Filter 0.45um with Printing.
	100pcs/pk		50pcs/pk	



Ref.No.	C0000510	C0000511
Description	Sterile 30mm Nylon Welded Syringe Filter 0.22um with Printing.	Sterile 30mm Nylon Welded Syringe Filter 0.45um with Printing.
	50pcs/pk	

### PES

- For medical use, sterile filtering protein solution, tissue culture media, additives.



Ref.No.	C0000500	C0000501	C0000502	C0000503
Description	Sterile 13mm PES Welded Syringe Filter 0.22um with Printing.	Sterile 13mm PES Welded Syringe Filter 0.45um with Printing.	Sterile 25mm PES Welded Syringe Filter 0.22um with Printing.	Sterile 25mm PES Welded Syringe Filter 0.45um with Printing.
	100pcs/pk		50pcs/pk	



Ref.No.	C0000518	C0000519
Description	Sterile 30mm PES Welded Syringe Filter 0.22um with Printing.	Sterile 30mm PES Welded Syringe Filter 0.45um with Printing.
	50pcs/pk	

Labfil<sup>®</sup>

STERILE SYRINGE FILTER



## PTFE

- ♦ 100% integrity tested.
- ♦ Individually packaged.
- ♦ Ideal for sterile filtration.
- ♦ For degassing/clarifying aqueous and solvent samples.

### PTFE Hydrophilic



Ref.No.	C0000488	C0000489	C0000490	C0000491
<b>Description</b>	Sterile 13mm PTFE Hydrophilic Welded Syringe Filter 0.22um with Printing.	Sterile 13mm PTFE Hydrophilic Welded Syringe Filter 0.45um with Printing.	Sterile 25mm PTFE Hydrophilic Welded Syringe Filter 0.22um with Printing.	Sterile 25mm PTFE Hydrophilic Welded Syringe Filter 0.45um with Printing.
	100pcs/pk		50pcs/pk	



Ref.No.	C0000512	C0000513
<b>Description</b>	Sterile 30mm PTFE Hydrophilic Welded Syringe Filter 0.22um with Printing.	Sterile 30mm PTFE Hydrophilic Welded Syringe Filter 0.45um with Printing.
	50pcs/pk	

### PTFE Hydrophobic



Ref.No.	C0000504	C0000505	C0000506	C0000507
<b>Description</b>	Sterile 13mm PTFE Hydrophobic Welded Syringe Filter 0.22um with Printing.	Sterile 13mm PTFE Hydrophobic Welded Syringe Filter 0.45um with Printing.	Sterile 25mm PTFE Hydrophobic Welded Syringe Filter 0.22um with Printing.	Sterile 25mm PTFE Hydrophobic Welded Syringe Filter 0.45um with Printing.
	100pcs/pk		50pcs/pk	



Ref.No.	C0000520	C0000521
<b>Description</b>	Sterile 30mm PTFE Hydrophobic Welded Syringe Filter 0.22um with Printing.	Sterile 30mm PTFE Hydrophobic Welded Syringe Filter 0.45um with Printing.
	50pcs/pk	

## PVDF

- ♦ 100% integrity tested.
- ♦ Individually packaged.
- ♦ For sterilization/clarification of water, buffers, and salt solutions.

### PVDF Hydrophilic



Ref.No.	C0000496	C0000497	C0000498	C0000499
<b>Description</b>	Sterile 13mm PVDF Hydrophilic Welded Syringe Filter 0.22um with Printing.	Sterile 13mm PVDF Hydrophilic Welded Syringe Filter 0.45um with Printing.	Sterile 25mm PVDF Hydrophilic Welded Syringe Filter 0.22um with Printing.	Sterile 25mm PVDF Hydrophilic Welded Syringe Filter 0.45um with Printing.
	100pcs/pk		50pcs/pk	



Ref.No.	C0000516	C0000517
<b>Description</b>	Sterile 30mm PVDF Hydrophilic Welded Syringe Filter 0.22um with Printing.	Sterile 30mm PVDF Hydrophilic Welded Syringe Filter 0.45um with Printing.
	50pcs/pk	

### PVDF Hydrophobic



Ref.No.	C0000492	C0000493	C0000494	C0000495
<b>Description</b>	Sterile 13mm PVDF Hydrophobic Welded Syringe Filter 0.22um with Printing.	Sterile 13mm PVDF Hydrophobic Welded Syringe Filter 0.45um with Printing.	Sterile 25mm PVDF Hydrophobic Welded Syringe Filter 0.22um with Printing.	Sterile 25mm PVDF Hydrophobic Welded Syringe Filter 0.45um with Printing.
	100pcs/pk		50pcs/pk	



Ref.No.	C0000514	C0000515
<b>Description</b>	Sterile 30mm PVDF Hydrophobic Welded Syringe Filter 0.22um with Printing.	Sterile 30mm PVDF Hydrophobic Welded Syringe Filter 0.45um with Printing.
	50pcs/pk	

# Sterile Economy Syringe Filter

## Nylon

- 100% integrity tested.
- Individually packaged.
- Ideal for sterile filtration.
- Low extractables; high protein binding; recommended for alcohols and weak solvents.



Ref.No.	C0000524	C0000525	C0000526	C0000527
Description	Sterile 13mm Nylon Syringe Filter 0.22um with Outer Ring.	Sterile 13mm Nylon Syringe Filter 0.45um with Outer Ring.	Sterile 25mm Nylon Syringe Filter 0.22um with Outer Ring.	Sterile 25mm Nylon Syringe Filter 0.45um with Outer Ring.
	100pcs/pk		50pcs/pk	



Ref.No.	C0000548	C0000549
Description	Sterile 33mm Nylon Syringe Filter 0.22um with Outer Ring.	Sterile 33mm Nylon Syringe Filter 0.45um with Outer Ring.
	50pcs/pk	

## PES



Ref.No.	C0000544	C0000545	C0000546	C0000547
Description	Sterile 13mm PES Syringe Filter 0.22um with Outer Ring.	Sterile 13mm PES Syringe Filter 0.45um with Outer Ring.	Sterile 25mm PES Syringe Filter 0.22um with Outer Ring.	Sterile 25mm PES Syringe Filter 0.45um with Outer Ring.
	100pcs/pk		50pcs/pk	



Ref.No.	C0000558	C0000559
Description	Sterile 33mm PES Syringe Filter 0.22um with Outer Ring.	Sterile 33mm PES Syringe Filter 0.45um with Outer Ring.
	50pcs/pk	

## PTFE

- 100% integrity tested.
- Individually packaged.
- Ideal for sterile filtration.
- For degassing/clarifying aqueous and solvent samples.

### PTFE Hydrophilic



Ref.No.	C0000528	C0000529	C0000530	C0000531
Description	Sterile 13mm PTFE Hydrophilic Syringe Filter 0.22um with Outer Ring.	Sterile 13mm PTFE Hydrophilic Syringe Filter 0.45um with Outer Ring.	Sterile 25mm PTFE Hydrophilic Syringe Filter 0.22um with Outer Ring.	Sterile 25mm PTFE Hydrophilic Syringe Filter 0.45um with Outer Ring.
	100pcs/pk		50pcs/pk	



Ref.No.	C0000550	C0000551
Description	Sterile 33mm PTFE Hydrophilic Syringe Filter 0.22um with Outer Ring.	Sterile 33mm PTFE Hydrophilic Syringe Filter 0.45um with Outer Ring.
	50pcs/pk	

### PTFE Hydrophobic



Ref.No.	C0000532	C0000533	C0000534	C0000535
Description	Sterile 13mm PTFE Hydrophobic Syringe Filter 0.22um with Outer Ring.	Sterile 13mm PTFE Hydrophobic Syringe Filter 0.45um with Outer Ring.	Sterile 25mm PTFE Hydrophobic Syringe Filter 0.22um with Outer Ring.	Sterile 25mm PTFE Hydrophobic Syringe Filter 0.45um with Outer Ring.
	100pcs/pk		50pcs/pk	



Ref.No.	C0000553	C0000552
Description	Sterile 33mm PTFE Hydrophobic Syringe Filter 0.22um with Outer Ring.	Sterile 33mm PTFE Hydrophobic Syringe Filter 0.45um with Outer Ring.
	50pcs/pk	



## PVDF

- ◆ 100% integrity tested.
- ◆ Individually packaged.
- ◆ For sterilization/clarification of water, buffers, and salt solutions.

### PVDF Hydrophilic



Ref.No.	C0000536	C0000537	C0000538	C0000539
<b>Description</b>	Sterile 13mm PVDF Hydrophilic Syringe Filter 0.22um with Outer Ring.	Sterile 13mm PVDF Hydrophilic Syringe Filter 0.45um with Outer Ring.	Sterile 25mm PVDF Hydrophilic Syringe Filter 0.22um with Outer Ring.	Sterile 25mm PVDF Hydrophilic Syringe Filter 0.45um with Outer Ring.
	100pcs/pk		50pcs/pk	



Ref.No.	C0000554	C0000555
<b>Description</b>	Sterile 33mm PVDF Hydrophilic Syringe Filter 0.22um with Outer Ring.	Sterile 33mm PVDF Hydrophilic Syringe Filter 0.45um with Outer Ring.
	50pcs/pk	

### PVDF Hydrophobic



Ref.No.	C0000540	C0000541	C0000542	C0000543
<b>Description</b>	Sterile 13mm PVDF Hydrophobic Syringe Filter 0.22um with Outer Ring.	Sterile 13mm PVDF Hydrophobic Syringe Filter 0.45um with Outer Ring.	Sterile 25mm PVDF Hydrophobic Syringe Filter 0.22um with Outer Ring.	Sterile 25mm PVDF Hydrophobic Syringe Filter 0.45um with Outer Ring.
	100pcs/pk		50pcs/pk	



Ref.No.	C0000556	C0000557
<b>Description</b>	Sterile 33mm PVDF Hydrophobic Syringe Filter 0.22um with Outer Ring.	Sterile 33mm PVDF Hydrophobic Syringe Filter 0.45um with Outer Ring.
	50pcs/pk	

Labfil<sup>®</sup>

LABORATORY SYRINGE

## Laboratory Syringe ★★ ★

- ◆ Made of high quality PP material with good chemical resistance.
- ◆ All batches of this product are produced in an ISO 9001 compliant clean environment.
- ◆ Additionally, all syringes are designed to match with ALWSCI syringe filters, and they can also be used with ALWSCI vials.



Ref.No.	C0001749	C0001750	C0001751
Description	2mL Disposable HPLC Laboratory syringe.	5mL Disposable HPLC Laboratory syringe.	10mL Disposable HPLC Laboratory syringe.
		100pcs/pk	



Ref.No.	C0001752	Package
Description	20mL Disposable HPLC Laboratory syringe.	
		100pcs/pk



# Labfil<sup>®</sup> MEMBRANE FILTER





## 47MM Sterile MCE Grid Membrane Filter

- Biologically inert mixtures of cellulose acetate and cellulose nitrate have made sterile MCE membrane filters one of the most widely used membranes in analytical and research applications.



Ref.No.	C0001244	C0001243	Package
Description	47mm Sterile MCE Grid Membrane White Membrane/Black 0.22um.	47mm Sterile MCE Grid Membrane White Membrane/Black 0.45um.	100pcs/pk

### Features

- Ideal for capturing and culturing microorganisms in the Water and wastewater industry.
- Used to determine particulate contamination of lubricating oil and hydraulic fluid in patch test kits.
- Available in pore sizes 0.22um and 0.45um, colored black, with a gridded surface.
- Compatible with gamma irradiation.

## Membrane Filter

- Membrane filters or "membranes" are polymer films with specific pore ratings.
- Membranes retain particles and microorganisms that exceed their pore ratings by acting as a physical barrier and capturing such particles on the surface of the membrane.
- Labfil® membranes are available in a variety of polymers, pore sizes, diameters, and surface types.



Ref.No.	C0000303	C0000305	C0001874 ★
Description	47mm Nylon Membrane 0.22um.	47mm Nylon Membrane 0.45um.	47mm Nylon Membrane 0.22um.
	100pcs/pk		50pcs/pk

## Membrane Filter

- Membrane filters or "membranes" are polymer films with specific pore ratings.
- Membranes retain particles and microorganisms that exceed their pore ratings by acting as a physical barrier and capturing such particles on the surface of the membrane.
- Labfil membranes are available in a variety of polymers, pore sizes, diameters, and surface types.

Image	Type	Dimension(mm)	Pore Size	Item No.	Packing
	CA	47mm	0.22µm	C0000875	100pcs/pk
			0.45µm	C0000876	
	MCE	90mm	0.22µm	C0000877	100pcs/pk
			0.45µm	C0000878	
	MCE	47mm	0.22µm	C0000311	100pcs/pk
			0.45µm	C0000313	
	MCE	90mm	0.22µm	C0000312	100pcs/pk
			0.45µm	C0000314	
	PES	47mm	0.22µm	C0000891	100pcs/pk
			0.45µm	C0000892	
	PES	90mm	0.22µm	C0000893	100pcs/pk
			0.45µm	C0000894	
	Nylon	47mm	0.22µm	C0000303	100pcs/pk
			0.45µm	C0000305	
	Nylon	90mm	0.22µm	C0000304	100pcs/pk
			0.45µm	C0000306	
	PVDF(Hydrophilic)	47mm	0.22µm	C0000909	100pcs/pk
			0.45µm	C0000563	
	PVDF(Hydrophilic)	90mm	0.22µm	C0000910	100pcs/pk
			0.45µm	C0000911	
	PVDF(Hydrophobic)	47mm	0.22µm	C0000916	100pcs/pk
			0.45µm	C0000917	
	PVDF(Hydrophobic)	90mm	0.22µm	C0000918	100pcs/pk
			0.45µm	C0000919	
	PTFE(Hydrophilic)	47mm	0.22µm	C0000424	100pcs/pk
			0.45µm	C0000425	
	PTFE(Hydrophilic)	90mm	0.22µm	C0000899	100pcs/pk
			0.45µm	C0000900	
	PTFE(Hydrophobic)	47mm	0.22µm	C0000307	100pcs/pk
			0.45µm	C0000309	
	PTFE(Hydrophobic)	90mm	0.22µm	C0000308	100pcs/pk
			0.45µm	C0000310	

## Chemical Compatibility

C=Compatibility		LC=Limited Compatibility	IC=Incompatibility	ND=No Data at present	
Chemical	Nylon	PTFE	PVDF	PES	
<b>ACIDS</b>	acetic acid 25%	C	C	C	C
	hydrochloric acid 25%	IC	C	C	C
	Sulfuric acid,25%	IC	C	C	C
	Nitric acid,25%	IC	C	C	C
	Phosphoric acid,25%	IC	C	ND	ND
	Formic acid,25%	IC	C	ND	ND
	trichloroacetic acid,10%	IC	C	ND	ND
<b>Alcohol</b>	Methyl alcohol,98%	C	C	C	C
	ethyl alcohol,70%	LC	C	C	C
	Isopropyl alcohol	C	C	C	C
	Butanol	C	C	C	C
	benzyl alcohol	C	C	C	ND
	glycerinum	C	C	C	C
<b>Acid amides</b>	Triethanolamine	C	C	ND	ND
	Aniline	ND	C	ND	ND
	Pyridine	C	C	IC	IC
	Acetonitrile	C	C	C	LC
<b>Lipid</b>	Ethyl acetate	C	C	C	IC
	N-butyl acetate	C	C	IC	IC
	Propyl acetate	C	C	IC	IC
	Cellosolve acetate	ND	C	ND	IC
	Methyl Cellosolve	ND	C	ND	IC
	Isopropyl myristate	C	C	ND	IC
<b>Ketone</b>	Acetone	C	C	IC	IC
	Cyclohexanone	C	C	IC	IC
	Methyl ethyl ketone	C	C	LC	IC
	Methyl-Isobutyl Ketone	ND	C	LC	IC
<b>Organic Peroxide</b>	Dioxane	C	C	LC	IC
	Tetrahydrofuran	C	C	LC	IC
	Dimethyl sulfoxide	C	C	IC	IC
	Isopropyl ether	ND	C	C	C
<b>Sundry</b>	Phenol solution,10%	ND	C	LC	IC
	Formaldehyde Solution,30%	C	C	C	C
	Hydrogen Peroxide	C	C	ND	ND
	Silicone oil/silicone oil	ND	C	C	C

## Be Simple, Be Professional

### Chromatography Vials, Closures



### Syringe Filter

