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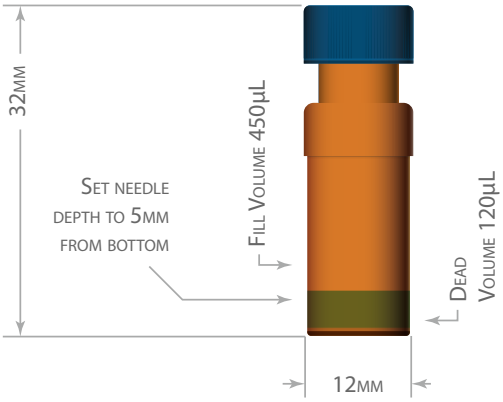
Amber|Filter Vial Technical Data Sheet

Product Description	Part #	Sterility
Amber|Filter Vial - PTFE 0.2µm	38830	none
Amber|Filter Vial - PTFE 0.45µm	38840	none
Amber|Filter Vial - Nylon 0.2µm	38838	none
Amber|Filter Vial - Nylon 0.45µm	38839	none

Amber|**Filter Vial**



Introduction

Amber|Filter Vials are all-in-one syringeless filtration devices that combine sample filtration and vial storage in a single step. The amber housing protects light-sensitive compounds from degradation while simplifying sample preparation for HPLC, UPLC, and LC-MS analysis. By eliminating separate syringes, filters, and transfer steps, amber filter vials reduce sample handling, minimize contamination risk, and improve laboratory efficiency.

Specifications

Fill Vol.	450µL
Dead Vol.	120µL
Cap Style	Screw Cap
Septum	Pre-Slit
Sterility (SAL)	non-sterile

FAQ's

What are Filter Vials?

Filter Vials are a revolutionary device for in-line filtration for liquid and gas chromatography.

Amber|Filter Vials have a pre-slit cap for easy needle puncture.

What will my benefits be of my lab standardizing on Filter Vials?

Thomson Filter Vials give the ability to protect your HPLC or LCMS, UHPLC, GCMS like an oil filter protects the car. One wants to eliminate any particulates floating throughout the system.

What needle depth do you set your autosampler for all of Thomson Filter Vials?

5mm from the bottom.

What autosamplers does the Filter Vial work in?

The Filter Vial fits in any autosampler that uses 12x32mm or 2mL vials. Most autosamplers such as Agilent® and Waters®.

Thomson is not affiliated with Waters® and Agilent® or their products.

What is the Filter Vial made out of?

It is made from Virgin PP tested by LCMS.

What is the dead Volume in the Filter Vial?

120µL

What is the fill volume?

The total volume is 450µL or up to the fill line.

Where does the liquid go when you squeeze?

The liquid or sample goes into the plunger part of the Filter Vial while the particulates are filtered out.

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Chemical Compatibility

	Housing Materials	Filter Membrane			
	Polypropylene	PTFE	PVDF	PES	NYLON
Acetic Acid (glacial) | *acid, organic*	TST	R	R	R	NR
Acetone | *ketone*	R	R	NR	GNR	R
Acetonitrile (ACN) | *nitrile*	R	R	LTD	NR	R
Alconox, 1% | *surfactant/detergent*	ND	TST	TST	ND	TST
Ammonium Hydroxide | *caustic*	TST	GR	R	NR	TST
Ammonium Sulfate (saturated) | *salt, aqueous solution*	R	GR	NR	ND	R
Amyl Acetate | *ester*	TST	R	R	GR	TST
Amyl Alcohol | *alcohol*	R	R	R	GR	TST
Benzene | *HC, aromatic*	NR	—	—	—	—
Benzyl Alcohol | *HC aromatic/alcohol*	NR	—	—	—	—
Boric Acid (aqueous solution) | *acid, inorganic*	R	GR	TST	GR	R
Butyl Acetate | *ester*	TST	GR	TST	GNR	R
Butyl Alcohol | *alcohol*	R	GR	R	GR	R
Carbon Tetrachloride | *HC, halogenated*	NR	—	—	—	—
Cellosolve (Ethyl) | *glycol ether*	R	GR	ND	GR	R
CHAPS (aqueous solution) | *surfactant/detergent*	ND	TST	ND	ND	TST
Chloroform | *HC, halogenated*	NR	—	—	—	—
Cyclohexanone | *ketone*	NR	—	—	—	—
Diethyl Pyrocarbonate, 0.2% | *carboxylic anhydride*	ND	ND	TST	ND	ND
Dimethyl Sulfoxide (DMSO) | *sulfoxide*	R	R	NR	NR	R
Dimethylacetamide | *amide*	R	GR	NR	NR	NR
Dimethylformamide | *amide*	R	GR	NR	ND	R
Dioxane | *ether*	R	GR	R	ND	R
Ethers | *ether*	NR	—	—	—	—
Ethyl Acetate | *ester*	TST	R	R	GNR	R
Ethyl Alcohol | *alcohol*	R	R	R	GR	TST
Ethylene Glycol | *glycol*	R	R	R	GR	R
Formaldehyde | *aldehyde*	R	R	R	ND	R
Formic Acid, 50% | *acid, organic*	R	GR	R	ND	NR
Freon (TF or PCA) | *HC, halogenated*	R	GR	R	ND	R
Gasoline | *HC*	NR	—	—	—	—
Glycerine (Glycerol) | *glycol*	R	GR	R	GR	R
Guanidine Hydrochloride, 6M | *salt, aqueous solution*	ND	GR	ND	ND	ND
Guanidine Thiocyanate, 5M | *salt, aqueous solution*	ND	GR	ND	ND	ND
Helium | *gas*	R	R	TST	ND	R
Hexane | *HC, aliphatic*	NR	—	—	—	—
Hydrochloric Acid, 1N (HCL) | *acid, inorganic*	GR	R	R	GR	GR
Hydrochloric Acid, 6N (HCL) | *acid, inorganic*	TST	R	TST	GR	TST
Hydrochloric Acid, conc. (HCL) | *acid, inorganic*	NR	—	—	—	—
Hydrofluoric Acid | *acid, inorganic*	NR	—	—	—	—
Hydrogen | *gas*	R	R	R	ND	R
Hydrogen Peroxide, 3% | *peroxide*	R	R	R	ND	R
Hydrogen Peroxide, 30% | *peroxide*	TST	R	R	ND	TST
Hydrogen Peroxide, 90% | *peroxide*	R	R	R	ND	NR
HYPO (aqueous solution) | *salt, aqueous solution*	R	GR	R	ND	R
Isobutyl Alcohol | *alcohol*	R	R	R	GR	TST
Isopropyl Acetate | *ester*	TST	R	R	GNR	R
Isopropyl Alcohol | *alcohol*	R	R	R	GR	TST
Kerosene | *HC*	TST	LTD	R	GR	R

R = Recommended | **GR** = Generally Recommended | **NR** = Not Recommended | **GNR** = Generally Not Recommended
LTD = Limited Recommendation | **TST** = Testing Recommended | **ND** = No Data Presently Available

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Chemical Compatibility

	Housing Materials	Filter Membrane			
	Polypropylene	PTFE	PVDF	PES	NYLON
Lactic Acid, 50% | *acid, organic/alcohol*	R	GR	TST	ND	TST
Lubrol PX (aqueous solution) | *surfactant/detergent*	ND	TST	ND	ND	ND
Methyl Ethyl Ketone (MEK) | *ketone*	R	R	NR	GNR	R
Mercaptoethanol, 0.1M | *alcohol/mercaptan*	ND	ND	ND	ND	ND
Methyl Acetate | *ester*	TST	R	NR	GNR	R
Methyl Alcohol | *alcohol*	R	R	R	GR	TST
Methylene Chloride | *HC, halogenated*	NR	—	—	—	—
Methyl Isobutyl Ketone (MIBK) | *ketone*	NR	—	—	—	—
Mineral Spirits | *HC*	NR	—	—	—	—
Nitric Acid, 6N | *acid, inorganic*	TST	R	R	R	NR
Nitric Acid (concentrated) | *acid, inorganic*	NR	—	—	—	—
Nitrobenzene | *HC, aromatic*	NR	—	—	—	—
Nitrogen | *gas*	ND	R	R	ND	R
Nonidet-P40 (aqueous solution) | *surfactant/detergent*	ND	ND	ND	ND	ND
Ozone | *gas*	NR	—	—	—	—
Paraldehyde | *aldehyde*	TST	GR	TST	ND	R
Pentane | *HC, aliphatic*	NR	—	—	—	—
Petroleum Ether | *ether*	ND	GR	R	ND	R
Phenol (aqueous solution) | *phenol*	NR	—	—	—	—
Potassium Hydroxide, 3N | *caustic*	R	R	R	ND	R
Pyridine | *amine*	R	GR	NR	NR	TST
Silicone Oils | *silicone*	R	GR	R	ND	R
Sodium Carbonate (aqueous solu-tion) | *salt, aqueous solution*	R	R	R	ND	TST
Water (Brine) | *salt, aqueous solution*	R	R	R	ND	R
Sodium Chloride (aqueous solution) | *salt, aqueous solution*	R	R	R	ND	R
Sodium Dodecyl Sulfate | *surfactant/detergent*	ND	ND	ND	ND	ND
Sodium Hydroxide, 3N | *caustic*	R	R	R	R	R
Sodium Hydroxide (concentrated) | *caustic*	R	R	R	R	NR
Sulfuric Acid (concentrated) | *acid, inorganic*	NR	—	—	—	—
Tetrahydrofuran (THF) | *ether*	NR	—	—	—	—
Toluene | *HC, aromatic*	NR	—	—	—	—
TCA (aqueous solution) | *acid, organic*	R	GR	R	ND	TST
Trichloroethane | *HC, halogenated*	NR	—	—	—	—
Trichloroethylene | *HC, halogenated*	NR	—	—	—	—
Tween 20 (aqueous solution) | *surfactant/detergent*	ND	R	TST	ND	TST
Urea, 8M | *salt, aqueous solution*	R	GR	R	ND	R
Xylene | *HC, aromatic*	NR	—	—	—	—

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Compound Compatibility

	Recommended Filter Membrane				
	PVDF	PES	PTFE	PES	PVDF
	.2 µm	.2 µm	.2 µm	.45 µm	.45 µm
5-Fluorouracil			●		
(18F) Fluoromisondazole, Misiomidazole	●				
Acebutolol		●			
Acetylsalicylic acid		●			
Alpha1-Proteinase Inhibitor (Human)					●
Alprenolol		●			
Amiloride		●			
Amphotericin B for Injection USP					●
Atenolol		●			
Azathioprine				●	●
Azodicarbonamide		●			
Bleomycin Sulfate			●		
Caffeine		●			
Cetirizine				●	●
Chlorothiazide		●			
Chloramphenicol		●			
Cimetidine		●			
Ciprofloxacin		●			
Cisplatin, Cisplatin Injection			●		
Cyclosporine A	●				
Cytarabine			●		
Daunorubicin			●		
DE-310		●			
Diclofenac					●
Enalapril		●			
Ethionamide			●		
Factor IX Complex Heat-Treated					●
Gatifloxacin				●	●
Hydrochlorothiazide		●			
Ibuprofen				●	●
Iosniazid			●		
isonicotinic acid			●		
Ketamine		●			
Las 35917					●
Levofloxacin				●	●
Lomefloxacin				●	●
Methyl Gag; NSC-32946			●		
Metoprolol		●			
Mitomycin			●		
Morphazinamide			●		
Nadolol		●			
Nicotinic acid			●		
Paclitaxel	●				
p-Aminobenzoic acid (PABA)					●
p-aminosalicylic acid			●		
Pefloxacin				●	●
Pentoxifylline (PTX)	●				
Phenytoin					●
Pyrazinamide			●		
Pyrimethamine				●	●

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Compound Compatibility

	Recommended Filter Membrane				
	PVDF	PES	PTFE	PES	PVDF
	.2 µm	.2 µm	.2 µm	.45 µm	.45 µm
Ranitidine		●			
Rifampicin				●	●
Sabeluzole					●
Streptokinase					●
Sulfadozine					●
Sulphasalazine		●			
Sulpiride		●			
Terbutaline		●			
Thiotepa Parenteral Sterile			●		
Timolol		●			
Tobramycin Vincristine Sulfate			●		
Tranexamic acid		●			
Triamcinolone Acetonide		●			
Triazinate; NSC-139105			●		
Tropicamide				●	
Vinblastine Sulfate			●		