

Go To www.chromtech.net.au/filp/catalogs/"SUPPLIER" THEN add "/index.php" to URL
[Ctrl "F"] to SEARCH for Item > Description/Cat# etc
397 [Ctrl "F"] to SEARCH for Item > Description/Cat# etc

Filtration Accessories : Filtration Hints

(Ctrl F)
> Cat.#s

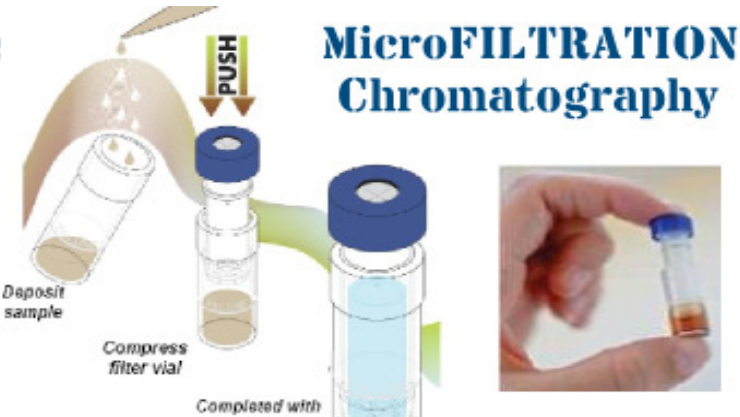


	Vac-u-Fill Bottles VacuCap fastFiltration(PALL) FastCap(Nalgene)	Liquid > Current System Syringe Pump	AUD Prices Pump
Selection of Filter Media : by size Flow propl to (Diam) sqrd	0.45um : 0.22um 1.00 : 0.25 x speed	Syringe Filter : max Pressure 72psi (PP body)	on top of main fil- ter
Pre Filter : protects main filter from blocking extends lifetime and can improve speed	use coarser Glass Fibre	some have Class Fibre Multi-Layer	on top of main fil- ter
Relative speed based on Surface Area of Pore Size um	13 : 25 : 33mm 0.27 : 1.0 : 1.75 x speed		
Measured	Syringe Pump : Olive Oil 25C 30psi (PressGauge) 20ml 19mmID Syringe 0.5sqin > 1.0ml/min 0.45um PVDF	50ml syringe 29mmID > 2.3ml/min	
Vacuum vs Pressure 0.45um PVDF	HandPump Vacuum 350mm = - 7.0psi max developed Vac Flask Fil- tration Syringe Filter 25mmD Thumb Force ~10lb max = 20psi (but RSI problems ???)	47mm 25mm	47mm MF Calcu- lated Flow=0,66ml/min x { 47/25 }sqd = x 3.5 == 2.30ml/min Measured 20ml/6.0min = 3.3ml/min
Olive Oil	Viscosity 43cps 37C 24cps 54C	Flow is propl to 1/ vis- cosity	heating speeds up flow

ALL filters tend to block up depending on particulates that actually tend to fill the filter pores
- use of coarser pre-filter (glass Fibre) helps speed and the total sample throughput
for best results - match the polarity of the Membrane material with the polarity of the liquid
hydrophillic : PES > Nylon > PVDF > PTFE Hydrophobic
water-based polar solvents polyester Oils Hydrocarbon-based Oils
these are but generalisations - & it's very much "trial and error" for each application

Single-Step Filter Vials

- Simple Protection solution
for sample prep.
 - Chromatography sample clean up
protect Injection ports
and columns from dirt.
- 0.2um and 0.45um filter
 - Nylon, PTFE, PVDF, PES
 - PP body 0.45ml
 - 12x32mm format



HROMalytic +61(0)3 9762 2034
ECHnology Pty Ltd
Website NEW : www.chromalytic.net.au E-mail : info@chromtech.net.au Tel: 03 9762 2034 . . . in AUSTRALIA

Australian Distributors
Importers & Manufacturers
www.chromtech.net.au