

cronus[®]

syringe filters

issue 2

Cronus quality commitment

All Cronus filters are manufactured in compliance with ISO 9001 using validated production processes. This ensures consistency, reliability and membrane integrity, week after week, year after year.

Additionally, samples of all the filter batches and membranes are held for 24 months from production for reference. This enables your current batch to be tested in our labs under your conditions should you require assistance with an application.

Cronus filters are made using inert, extractable free virgin polypropylene housings with Luer lock and Luer slip fittings. Each filter is sealed using an ultrasonic process to ensure that no adhesives can contaminate your samples - essential to maintain your sample integrity. At the same time the process creates a physically stronger filter to protect against potentially dangerous bursting.

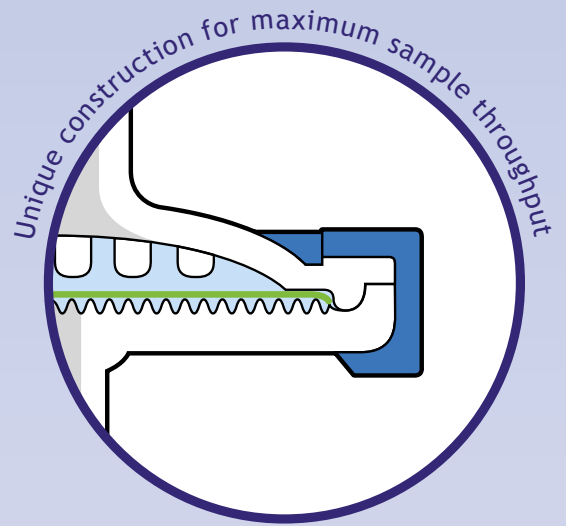
Colour coding

All Cronus filters are colour coded to help with easy identification. The membrane type and pore size are also printed on each filter to confirm that you are using the correct membrane.

Filter sizes and membranes to meet your sample needs

Cronus filters are available in a variety of sizes and with different membranes to suit your sample. Typical filtration volumes are shown below, but this may vary depending on how many particulates are in the sample. For heavily laden samples it is recommended to use a filter with a glass fibre pre-filter.

Typical sample	Recommended filter size	Residual volume (after air purge)
0-2ml	4mm	<7.5µl
2-10ml	13mm	<25µl
>10ml	25mm	<50µl



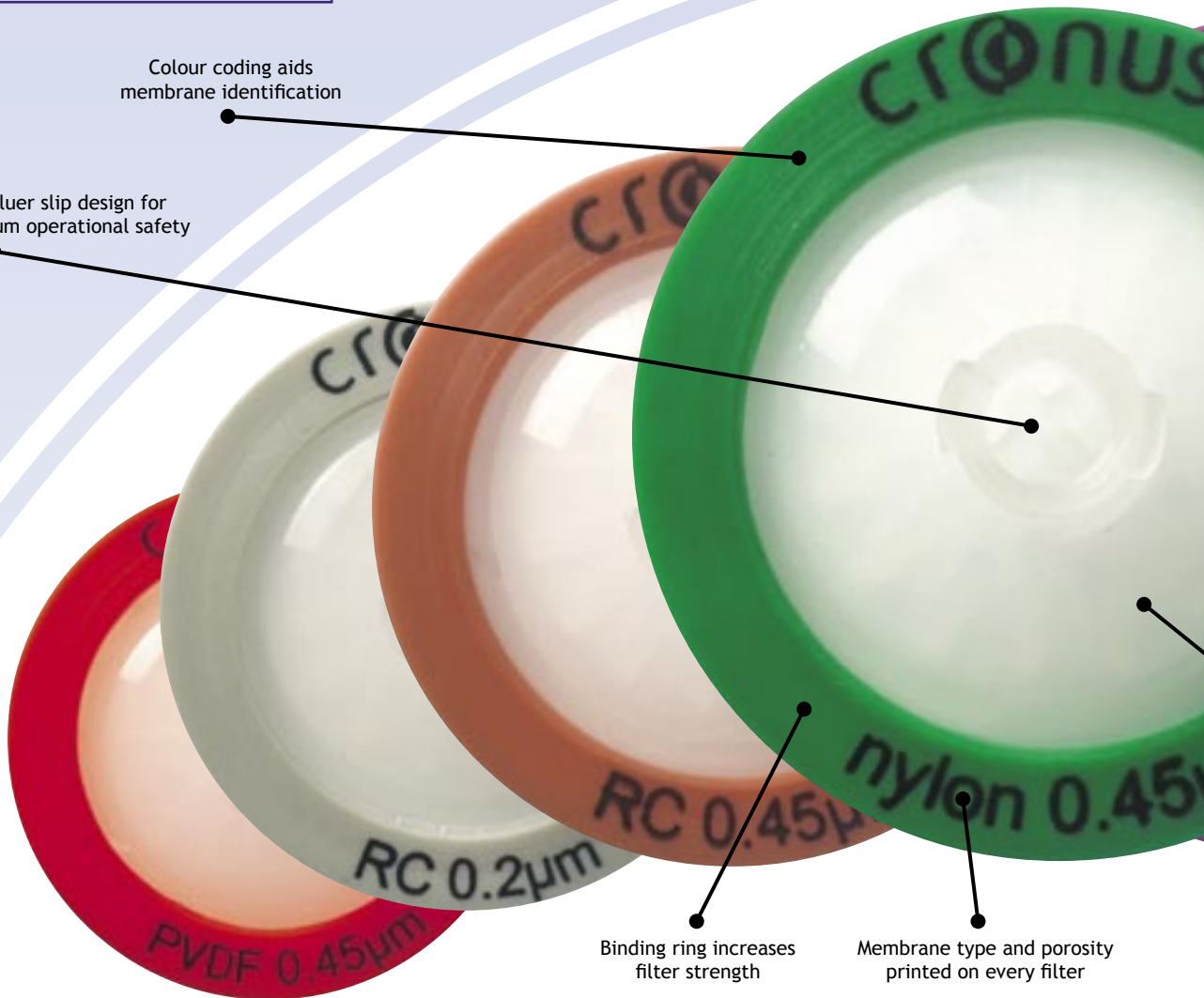
All filters are tested for:

Pore size distribution, bubble point, water breakthrough, housing and membrane integrity, HPLC extractables, permeability and efficiency.

Tested by an independent laboratory

Colour coding aids membrane identification

Universal luer lock/luer slip design for versatility and maximum operational safety



Binding ring increases filter strength

Membrane type and porosity printed on every filter


Membrane selection

It is important to use the correct filter for your sample as different membrane types will give different results. Most importantly it is necessary to ensure that the filter does not interfere or bind with your sample and that the solvent used does not affect the integrity of the membrane. Technical support is always available to help with your filter selection.


Nylon is a very pure hydrophilic membrane with very low levels of extractables - it is mechanically very strong and can be used in many different applications. The Nylon filter membrane undergoes extensive testing before it is encapsulated to ensure that the level of extractables is unsurpassed.

Colours: 

Regenerated Cellulose is suitable for a wide variety of laboratory procedures. It is a very low protein binder and therefore ideally suited for analyses that require maximum sample recovery. The membrane possesses good solvent resistance with both aqueous and organic solvents, and is able to work over a wide pH range.

Colours: 


Cellulose Acetate is the best choice when maximum protein recovery in the filtrate is critical. It is ideal for tissue culture media filtration and sensitive biological samples. Cellulose Acetate is well suited for use with aqueous based samples.

Colours: 


Glass Microfibre is the membrane of choice for dissolution testing, DNA recovery and clean-up. It can be used as a pre-filter to remove large particulates and to extend the load capacity of the membrane.

Colours: 


PTFE is chemically resistant to virtually all solvents and can be used for working with aggressive media such as strong acids and bases. PTFE is hydrophobic and requires pre-wetting (normally by using a small amount of alcohol) before being used with aqueous samples. PTFE filters can also be used to prevent moisture passing through air vents.


Colours: 

Polyvinylidene Difluoride (PVDF) is a broad purpose hydrophilic membrane that can be used in a variety of applications. It has high flow rates and is generally compatible with most common solvents. PVDF is a low protein binder.

Colours: 

Polyethersulphone (PES) is the membrane of choice for tissue culture work. It is resistant to a wide range of solvents and is recommended for ion chromatography.

Colours: 



Sterile Syringe Filters are individually packed and sterilised. Each box of 50 filters is lot numbered for QC tracking. Sterile syringe filters are available in two membrane types, Polyethersulphone (PES) and Cellulose Acetate.



Proprietary internal flow channel design maximises the available filter surface

Membrane & Porosity	Filter Size	Pack Size	Part Number
Nylon 0.2µm	4mm	100 1000	FFNN0402-100 FFNN0402-1000
	13mm	100 1000	FFNN1302-100 FFNN1302-1000
	25mm	100 1000	FFNN2502-100 FFNN2502-1000



Purple

Nylon 0.45µm	4mm	100 1000	FFNN0445-100 FFNN0445-1000
	13mm	100 1000	FFNN1345-100 FFNN1345-1000
	25mm	100 1000	FFNN2545-100 FFNN2545-1000



Green

Nylon 0.45µm with 1µm Glass Fibre Pre-Filter	25mm	100 1000	FPNN2545-100 FPNN2545-1000
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Orange

Regenerated Cellulose 0.2µm	13mm	100 1000	FFRC1302-100 FFRC1302-1000
	25mm	100 1000	FFRC2502-100 FFRC2502-1000



Grey

Regenerated Cellulose 0.45µm	4mm	100 1000	FFRC0445-100 FFRC0445-1000
	13mm	100 1000	FFRC1345-100 FFRC1345-1000
	25mm	100 1000	FFRC2545-100 FFRC2545-1000



Brown

Cellulose Acetate 0.45µm	13mm	100 1000	FFCA1345-100 FFCA1345-1000
	25mm	100 1000	FFCA2545-100 FFCA2545-1000



White

Glass Microfibre 0.7µm	25mm	100 1000	FFGF2507-100 FFGF2507-1000
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Gold

Glass Microfibre 1.2µm	25mm	100 1000	FFGF2512-100 FFGF2512-1000
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Turquoise

Glass Microfibre 3µm	25mm	100 1000	FFGF2531-100 FFGF2531-1000
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Navy Blue

Membrane & Porosity	Filter Size	Pack Size	Part Number
PTFE 0.2µm	4mm	100 1000	FFPT0402-100 FFPT0402-1000
	13mm	100 1000	FFPT1302-100 FFPT1302-1000
	25mm	100 1000	FFPT2502-100 FFPT2502-1000



Dark Blue

PTFE 0.45µm	4mm	100 1000	FFPT0445-100 FFPT0445-1000
	13mm	100 1000	FFPT1345-100 FFPT1345-1000
	25mm	100 1000	FFPT2545-100 FFPT2545-1000



Yellow

PVDF 0.2µm	4mm	100 1000	FFPV0402-100 FFPV0402-1000
	13mm	100 1000	FFPV1302-100 FFPV1302-1000



Black

PVDF 0.45µm	4mm	100 1000	FFPV0445-100 FFPV0445-1000
	13mm	100 1000	FFPV1345-100 FFPV1345-1000
	25mm	100 1000	FFPV2545-100 FFPV2545-1000



Red

PES 0.2µm	13mm	100 1000	FFPS1302-100 FFPS1302-1000
	25mm	100 1000	FFPS2502-100 FFPS2502-1000



Dark Grey

PES 0.45µm	13mm	100 1000	FFPS1345-100 FFPS1345-1000
	25mm	100 1000	FFPS2545-100 FFPS2545-1000



Light Green

Sterile Filters			
Cellulose Acetate 25mm, 0.2µm	50		FSCA2602-50
PES 25mm, 0.2µm	50		FSPS2602-50



Membrane Filters

Nylon 13mm, 0.45µm	100	FMNN1345-100
Nylon 47mm, 0.2µm	100	FMNN4702-100
Nylon 47mm, 0.45µm	100	FMNN4745-100
PTFE 47mm, 0.2µm	100	FMPT4702-100
PTFE 47mm, 0.45µm	100	FMPT4745-100

If the filter you need is not listed, please contact us

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