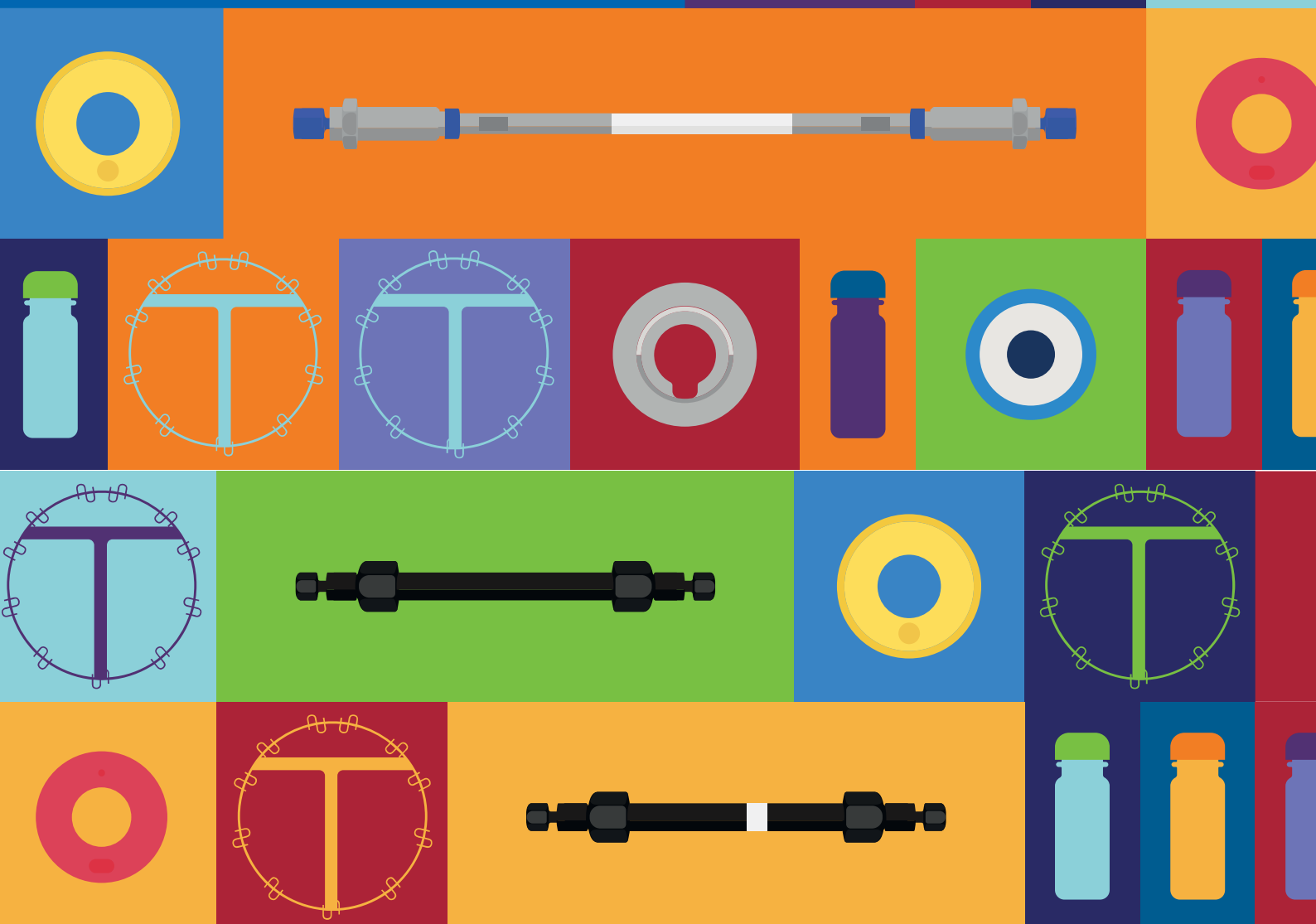


thermo scientific



# Connected chromatography solutions

2019/2021 Chromatography Consumables Catalog

**ThermoFisher**  
SCIENTIFIC

# Syringes and filters

Providing high quality filtration solutions for a variety of samples and applications

Choose from a variety of syringe filter sizes, membranes and housings for a wide range of laboratory applications.

## High quality filtration

- Low extractable membranes and solvent-resistant housing

## Titan3 color coded ring

- For easy selection of correct membrane and pore size

## High burst pressures

- For enhanced robustness in sample processing



For more information visit [thermofisher.com/syringefilters](https://www.thermofisher.com/syringefilters)

## Titan3 syringe filters

High performance HPLC syringe filters

- Low extractable membranes and housing
- HPLC performance tested
- Color coding for easy selection of the correct membrane and pore size
- Enhanced Luer Lock inlet which prevents leakage
- Most 30mm devices are provided with a 1mm boro-silicate glass pre-filter  
This is of benefit for high solids samples with larger size particulates
- Integral ring provides greater strength to the housing preventing leakage and bursting
- 30mm products pressure rated to 120psi
- Packed in reusable rigid transparent color coded containers

### Thermo Scientific™ Titan3™ nylon syringe filters

Diameter (mm)	Pore Size (µm)	Pre-Filter	Cat. No.	Quantity
4	0.2	No	42204-NN	100 Pack
	0.45	No	44504-NN	100 Pack
17	0.2	No	42213-NN	200 Pack
	0.45	No	44513-NN	200 Pack
30	0.2	Yes	42225-NN	100 Pack
	0.45	Yes	44525-NN	100 Pack
	0.45	No	44526-NN	100 Pack
	1.5	No	41225-NN	100 Pack
	5	No	45025-NN	100 Pack

#### Applications:

- HPLC and organic solvent sample preparation and clean up
- Dissolution sample analysis
- General sample preparation prior to analytical analysis
- Mixed sample matrix of aqueous or organic dissolved analytes

### Titan3 PTFE (hydrophobic) syringe filters

Diameter (mm)	Pore Size (µm)	Pre-Filter	Cat. No.	Quantity
4	0.2	No	42204-NP	100 Pack
	0.45	No	44504-NP	100 Pack
17	0.2	No	42213-NP	200 Pack
	0.45	No	44513-NP	200 Pack
30	0.2	Yes	42225-NP	100 Pack
	0.45	Yes	44525-NP	100 Pack
	1.0	No	41025-NP	100 Pack

#### Applications:

- Filtration of aggressive organic, highly basic or hot solutions, transducer protectors
- Filter aqueous solutions after prewetting with an alcohol

**Note:** PTFE hydrophobic membranes require pre-treatment with alcohol before being suitable for aqueous or high aqueous/organic samples. Do not use directly with aqueous solutions.

### Titan3 PTFE (hydrophilic) syringe filters

Diameter (mm)	Pore Size (µm)	Pre-Filter	Cat. No.	Quantity
17	0.2	No	42213-NPL	200 Pack
	0.45	No	44513-NPL	200 Pack
30	0.2	No	42225-NPL	100 Pack
	0.45	No	444525-NPL	100 Pack

#### Applications:

- Filtration of aggressive organic, highly basic or hot solutions, without the need pre-wet membrane
- Filter aqueous solutions without prewetting with an alcohol

### Titan3 PVDF syringe filters

Diameter (mm)	Pore Size (µm)	Pre-Filter	Cat. No.	Quantity
4	0.2	No	42204-PV	100 Pack
	0.45	No	44504-PV	100 Pack
17	0.2	Yes	42213-PV	200 Pack
	0.45	No	44513-PV	200 Pack
30	0.2	Yes	42225-PV	100 Pack
	0.45	No	44525-PV	100 Pack

#### Applications:

- General biological filtration
- Filtration of samples where high protein recovery is desired

### Titan3 regenerated cellulose syringe filters

Diameter (mm)	Pore Size (µm)	Pre-Filter	Cat. No.	Quantity
4	0.2	No	52204-RC	100 Pack
	0.45	No	54504-RC	100 Pack
17	0.2	Yes	52213-RC	200 Pack
	0.45	No	54513-RC	200 Pack
30	0.2	Yes	52225-RC	100 Pack
	0.45	No	54525-RC	100 Pack

#### Applications:

- Low non-specific binding applications
- Tissue culture media filtration and general biological sample filtration

### Titan3 PES (polyethersulfone) syringe filters

Diameter (mm)	Pore Size (µm)	Pre-Filter	Cat. No.	Quantity
17	0.2	No	42213-PS	200 Pack
	0.45	No	44513-PS	200 Pack
30	0.2	Yes	42225-PS	100 Pack
	0.45	No	44525-PS	100 Pack

#### Applications:

- Ion chromatography
- Tissue culture filtration, filtration of proteins and nucleic acids
- High-temperature liquids

### Titan3 GMF (glass microfiber) syringe filters

Diameter (mm)	Pore Size (µm)	Pre-Filter	Cat. No.	Quantity
30	0.7	No	40725-GM	100 Pack
	1.2	No	41225-GM	100 Pack
	3.1	No	42725-GM	100 Pack

#### Applications:

- Dissolution testing
- General filtration

### Titan3 polypropylene syringe filters

Diameter (mm)	Pore Size (µm)	Pre-Filter	Cat. No.	Quantity
17	0.2	No	42213-PP	200 Pack
	0.45	No	44513-PP	200 Pack
30	0.2	No	42225-PP	100 Pack
	0.45	No	44525-PP	100 Pack

#### Applications:

- Filtration of biological samples
- Filtration of aggressive organic solutions

### Titan3 cellulose acetate syringe filters

Diameter (mm)	Pore Size (µm)	Pre-Filter	Cat. No.	Quantity
4	0.2	No	42204-CA	100 Pack
	0.45	No	44502-CA	100 Pack
17	0.2	No	42213-CA	100 Pack
	0.45	No	44513-CA	100 Pack
30	0.2	No	42225-CA	100 Pack
	0.45	No	44525-CA	100 Pack

#### Applications:

- Tissue culture media filtration, sensitive biological samples



## Titan2 syringe filters

HPLC performe syringe filters

- Low extractable membranes and housing
- HPLC performance tested
- Plain polypropylene housing
- 30mm products pressure rated to 100psi
- Enhanced Luer Lock inlet which prevents leakage



### Thermo Scientific™ Target2™ nylon syringe filters

Diameter (mm)	Pore Size (µm)	Pre-Filter	Cat. No.	Quantity
4	0.2	No	F2504-2	100 Pack
	0.45	No	F2504-1	100 Pack
17	0.2	No	F2513-2	100 Pack
	0.45	No	F2513-1	100 Pack
30	0.2	No	F2500-2	100 Pack
		Yes	F2502-2	100 Pack
	0.45	No	F2500-1	100 Pack
		Yes	F2502-1	100 Pack
		No	F2500-12	100 Pack
5.0	No	F2500-50	100 Pack	

### Target 2 PTFE (hydrophobic) syringe filters

Diameter (mm)	Pore Size (µm)	Pre-Filter	Cat. No.	Quantity
4	0.2	No	F2504-4	100 Pack
	0.45	No	F2504-3	100 Pack
17	0.2	No	F2513-4	100 Pack
	0.45	No	F2513-3	100 Pack
30	0.2	No	F2500-4	100 Pack
		No	F2500-3	100 Pack
	0.45	Yes	F2502-3	100 Pack
		No	F2500-13	100 Pack

### Target2 PVDF syringe filters

Diameter (mm)	Pore Size (µm)	Pre-Filter	Cat. No.	Quantity
4	0.2	No	F2504-6	100 Pack
	0.45	No	F2504-5	100 Pack
17	0.2	No	F2513-6	100 Pack
	0.45	No	F2513-5	100 Pack
30	0.2	No	F2500-6	100 Pack
	0.45	No	F2500-5	100 Pack

#### Applications:

- General laboratory filtration
- Filtration for most HPLC samples

#### Applications:

- Filtration of aggressive organic, highly basic or hot solutions, transducer protectors
- Filter aqueous solutions after prewetting with an alcohol

**Note:** PTFE hydrophobic membranes require pre-treatment with alcohol before being suitable for aqueous or high aqueous/organic samples. Do not use directly with aqueous solutions

#### Applications:

- General biological filtration
- Filtration of samples where high protein recovery is desired

### Target2 regenerated cellulose syringe filters

Diameter (mm)	Pore Size (µm)	Pre-Filter	Cat. No.	Quantity
4	0.2	No	F2504-8	100 Pack
	0.45	No	F2504-7	100 Pack
17	0.2	No	F2513-8	100 Pack
	0.45	No	F2513-7	100 Pack
30	0.2	No	F2500-8	100 Pack
	0.45	No	F2500-7	100 Pack

#### Applications:

- Low non-specific binding applications
- Tissue culture media filtration and general biological sample filtration

### Target2 PES (polyethersulfone) syringe filters

Diameter (mm)	Pore Size (µm)	Pre-Filter	Cat. No.	Quantity
17	0.2	No	F2513-17	100 Pack
	0.45	No	F2513-14	100 Pack
30	0.2	No	F2500-17	100 Pack
	0.45	No	F2500-14	100 Pack

#### Applications:

- Ion chromatography
- Tissue culture filtration, filtration of proteins and nucleic acids
- High-temperature liquids

### Target2 GMF (glass microfiber) syringe filters

Diameter (mm)	Pore Size (µm)	Pre-Filter	Cat. No.	Quantity
30	0.7	No	F2500-18	100 Pack
	1.2	No	F2500-19	100 Pack
	3.1	No	F2500-20	100 Pack

#### Applications:

- Dissolution testing
- General filtration

### Target2 polypropylene syringe filters

Diameter (mm)	Pore Size (µm)	Pre-Filter	Cat. No.	Quantity
4	0.2	No	F2504-10	100 Pack
	0.45	No	F2504-9	100 Pack
17	0.2	No	F2513-10	100 Pack
	0.45	No	F2513-9	100 Pack
30	0.2	No	F2500-10	100 Pack
	0.45	No	F2500-9	100 Pack
		Yes	F2502-9	100 Pack

#### Applications:

- Filtration of biological samples
- Filtration of aggressive organic solutions

### Target2 cellulose acetate syringe filters

Diameter (mm)	Pore Size (µm)	Pre-Filter	Cat. No.	Quantity
4	0.2	No	F2504-16	100 Pack
	0.45	No	F2504-15	100 Pack
17	0.2	No	F2513-16	100 Pack
	0.45	No	F2513-15	100 Pack
30	0.2	No	F2500-16	100 Pack
	0.45	No	F2500-15	100 Pack

#### Applications:

- Tissue culture media filtration, sensitive biological samples

### Choice nylon syringe filters

Diameter (mm)	Pore Size (µm)	Pre-Filter	Cat. No.	Quantity
13	0.2	No	CH2213-NN	100 Pack
	0.45	No	CH2225-NN	100 Pack
17	0.2	No	CH4513-NN	100 Pack
	0.45	No	CH4525-NN	100 Pack

#### Applications:

- HPLC and organic solvent sample preparation and clean up
- Dissolution sample analysis
  - General sample preparation prior to analytical analysis
  - Mixed sample matrix of aqueous or organic dissolved analytes

## All-plastic disposable syringes

Disposable syringes with polyethylene barrels and polypropylene plungers; use for all syringe filter applications

- Two-part, all-plastic construction eliminates the need for rubber or synthetic plunger gaskets
- No silicone or oil lubricant is required in the barrel
- Choose Luer-Slip or Luer Lock syringes, in capacities ranging from 1 to 50mL



### All-plastic disposable syringes

Capacity (mL)	Cat. No.	Quantity
<b>Luer-Slip Syringes</b>		
1	S7510-1	100 Pack
3	S7510-3	100 Pack
5	S7510-5	100 Pack
10	S7510-10	100 Pack
20	S7510-20	100 Pack
30	S7510-30	50 Pack
50	S7510-50	30 Pack
<b>Luer Lock Syringes</b>		
3	S7515-3	100 Pack
5	S7515-5	100 Pack
10	S7515-10	100 Pack
20	S7515-20	100 Pack

## 750µL micro-centrifugal filters, non-sterile

- Filter volumes as low as 50µL up to 750µL with low hold-up volume
- Use with any laboratory microcentrifuge
- Virgin polypropylene filter housing with tapered 2mL, capped receiver tube
- 10,000xG maximum centrifugal force



### 750µL micro-centrifugal filters, non-sterile

Material	Pore Size (µm)	Cat. No.	Quantity
Cellulose Acetate	0,2	F2517-1	100 Pack
Cellulose Acetate	0,45	F2517-2	100 Pack
Nylon	0,2	F2517-3	100 Pack
Nylon	0,45	F2517-4	100 Pack
PVDF	0,2	F2517-5	100 Pack
PVDF	0,45	F2517-6	100 Pack
Regenerated Cellulose	0,2	F2517-7	100 Pack
Regenerated Cellulose	0,45	F2517-8	100 Pack
PTFE	0,2	F2517-9	100 Pack
PTFE	0,45	F2517-10	100 Pack

## 2mL centrifugal filters, non-sterile

- Filter sample volumes up to 2mL
- Virgin polypropylene filter housing with tapered 5mL, capped receiver tube
- Use with benchtop or floor model centrifuges
- 5,000xG maximum centrifugal force



### 2mL centrifugal filters, non-sterile

Material	Pore Size (µm)	Cat. No.	Quantity
Cellulose Acetate	0.2	F2520-1	25 Pack
Cellulose Acetate	0.45	F2520-2	25 Pack
Nylon	0.2	F2520-3	25 Pack
Nylon	0.45	F2520-4	25 Pack
PVDF	0.2	F2520-5	25 Pack
PVDF	0.45	F2520-6	25 Pack
PTFE	0.2	F2520-7	25 Pack
PTFE	0.45	F2520-8	25 Pack

## 25mL centrifugal filters, non-sterile

- Filter sample volumes up to 25mL
- Virgin polypropylene filter housing with conical receiver
- Use with benchtop or floor model centrifuges
- 2,500xG maximum centrifugal force



### 25mL centrifugal filters, non-sterile

Material	Pore Size (µm)	Cat. No.	Quantity
Cellulose Acetate	0.2	F2519-1	50 Pack
Cellulose Acetate	0.45	F2519-2	50 Pack
Nylon	0.2	F2519-3	50 Pack
Nylon	0.45	F2519-4	50 Pack
PVDF	0.2	F2519-5	50 Pack
PVDF	0.45	F2519-6	50 Pack

For more information visit [thermofisher.com/syringefilters](https://www.thermofisher.com/syringefilters)