



# FILTROS (UK) LIMITED

(United Kingdom)



## LABORATORY FILTER PAPERS



## GLASS MICROFIBER FILTERS



## CELLULOSE EXTRACTION THIMBLES



## SYRINGE FILTERS



## MEMBRANE FILTERS

# PRODUCT LIST 2025-26



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## FILTROS (UK) LIMITED

Our India office is represented by Neeraj Exports, Jaipur.

Filtros (UK) Limited, London is a technology focused company, specializing in the development of wide range of filtration media products.

### PRODUCT RANGE

We offer mainly following filtration products under our brand FILTROS (UK).

- (A) Quantitative Ash less Filter Papers & Ashless clipping
- (B) Low Ash Filter Papers
- (C) Qualitative Filter Papers
- (D) Glass Micro Fiber Filters
- (E) Chromatography Papers
- (F) Cellulose Extraction Thimbles
- (G) Glass Fiber Extraction Thimbles
- (H) Membrane & Syringe Filters

### MARKETING SETUP

Our filtration products are marketed in India through Neeraj Exports, who are equipped with state of the art converting facility and technical setup and will assist you in development of a specific product as per your requirement.

Neeraj Exports have a wide network of dealers in all 4 regions of India.

We caters to even small requirements of customers, who can choose and select from our wide range of filtration products.

Our products are used by leading research universities, medical companies & industrial and research laboratories.

### QUALITY STANDARDS

**FILTROS (UK)** is a brand name which is synonymous with quality.

Our products enjoy an image of assured consistency and are of high quality backed by in-house research and expertise.

For all our products we generate batch no. & Certificate of Analysis for each batch assuring the highest international quality standards.

Test Certificate of Analysis is available for all our products.

### CERTIFICATION

All our Products are CE certified.

Manufacturing & converting unit of Neeraj Exports is Certified under ISO 9001 : 2015, & (GMP) Good Manufacturing Practice.

Neeraj Exports are also registered under S.S.I.

We are also registered on GEM (Government e-market) place.



# Certificate of Registration

This is to certify that the  
Quality Management System  
of

**NEERAJ EXPORTS  
FILTROS INDIA**

at

CORPORATE OFFICE: 206, SIDDHA REGAL BUILDING, D-262, DEVI MARG, BANIPARK,  
JAIPUR – 302016, RAJASTHAN, INDIA  
WORKS : PLOT NO. 136/1, RAMSINGHPURA BASS, SANGANER, JAIPUR-302029,  
RAJASTHAN, INDIA

has been independently assessed and is  
compliant with the requirements of:

**ISO 9001:2015**

For the following scope of activities:

1. MANUFACTURING AND SUPPLY OF FILTROS UK BRAND CELLULOSE FILTER PAPERS, GLASS MICROFIBER FILTERS, CELLULOSE THIMBLES, GLASS MICRO FIBER THIMBLES, PAPERS FOR CHROMATOGRAPHY, SYRINGE FILTERS, MEMBRANE FILTERS, PH TEST PAPERS AND OTHER LABORATORY PRODUCTS.
2. PAPER & BOARD STATIONARY AND ART & CRAFT PRODUCTS

**Certificate Number: UQ - 2025022215**

Validity of this certificate can be verified at [www.ukcertifications.org.uk/verify](http://www.ukcertifications.org.uk/verify)

Date of Certification	22nd February 2025
1 <sup>st</sup> Surveillance Audit Due	21 st February 2026
2 <sup>nd</sup> Surveillance Audit Due	21 st February 2027
Certificate Expiry	21 st February 2028

*Daniel..*

Authorised Signatory



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71-75 Shelton Street, Covent Garden, London, WC2H 9JQ, United Kingdom  
Website:- [www.ukcertifications.org.uk](http://www.ukcertifications.org.uk), email:- [info@ukcertifications.org.uk](mailto:info@ukcertifications.org.uk)  
Company No. 11847851



# Certificate of Compliance

This is to certify that the

## NEERAJ EXPORTS FILTROS INDIA

at

CORPORATE OFFICE: 206, SIDDHA REGAL BUILDING, D-262, DEVI MARG,  
BANIPARK, JAIPUR – 302016, RAJASTHAN, INDIA  
WORKS : PLOT NO. 136/1, RAMSINGHPURA BASS, SANGANER,  
JAIPUR-302029, RAJASTHAN, INDIA

has been assessed and found working satisfactorily as per the norms of

### Good Manufacturing Practice (GMP)

For the following scope of activities: applied to its products

1. MANUFACTURING AND SUPPLY OF FILTROS UK BRAND CELLULOSE FILTER PAPERS, GLASS MICROFIBER FILTERS, CELLULOSE THIMBLES, GLASS MICRO FIBER THIMBLES, PAPERS FOR CHROMATOGRAPHY, SYRINGE FILTERS, MEMBRANE FILTERS, PH TEST PAPERS AND OTHER LABORATORY PRODUCTS.
2. PAPER & BOARD STATIONARY AND ART & CRAFT PRODUCTS

Certificate Number: UQ - 2025022511

Validity of this certificate can be verified at [www.ukcertifications.org.uk/verify](http://www.ukcertifications.org.uk/verify)

Date of Certification	22nd February 2025
1st Surveillance Audit Due	21st February 2026
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Certificate Expiry	21st February 2028

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Company No. 11847851



# Certificate of Compliance

## CE

We hereby declare that the technical files of all the items in each product group of complied with the requirements of the Council Directive on Medical Devices 93/42/EEC as Amended 2007/47/EC.

**Certificate No.: CE-4154**

### Manufacturer

Name : **NEERAJ EXPORTS  
FILTROS INDIA**

Address : **CORPORATE OFFICE: 206, SIDDHA REGAL BUILDING, D-262, DEVI  
MARG, BANIPARK, JAIPUR – 302016, RAJASTHAN, INDIA  
WORKS : PLOT NO. 136/1, RAMSINGHPURA BASS, SANGANER,  
JAIPUR-302029, RAJASTHAN, INDIA**

Brand Name : **FILTROS UK**

Products : **CELLULOSE FILTER PAPERS, GLASS MICROFIBER FILTERS,  
CELLULOSE THIMBLES, GLASS MICRO FIBER THIMBLES,  
PAPERS FOR CHROMATOGRAPHY, SYRINGE FILTERS,  
MEMBRANE FILTERS, PH TEST PAPERS AND OTHER  
LABORATORY PRODUCTS.**

**PAPER & BOARD STATIONERY AND ART & CRAFT PRODUCTS.**

### Complies with the requirements applicable to it

The quality system file has been assessed, approved and is subject to continuous surveillance according to the Council Directive on Personal Protective Equipment Regulation (EU) 2016/425.

### This certificate is issued under the following conditions:

1. It applies only to the quality system maintained in the manufacture of above referenced models and it does not substitute the design or type-examination procedures, if requested.
2. The certificate remains valid until the manufacturing conditions or the quality systems are not changed.
3. The certificate validity is conditioned by positive results of surveillance audits.

The CE mark as shown above can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of conformity and compliance with all relevant EC Directives. The statement is based on a single evaluation of one sample of above mentioned product. It does not imply an assessment of the whole production.

**Validity of this certificate can be verified at [www.ukcertifications.org.uk/verify](http://www.ukcertifications.org.uk/verify)**

Date of Certification 06<sup>th</sup> April 2023

1<sup>st</sup> Surveillance Aud it Due 05<sup>th</sup> April 2024

2<sup>nd</sup> Surveillance Audit Due 05<sup>th</sup> April 2025

Certificate Expiry (subject to the company maintaining its system to the required standard) 05<sup>th</sup> April 2026

*Daniel..*

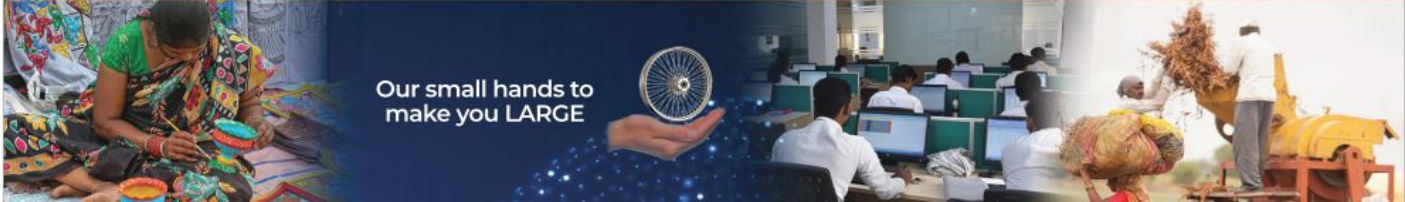
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Company No. 11847851



## UDYAM REGISTRATION CERTIFICATE



Our small hands to  
make you LARGE

TYPE OF ENTERPRISE	MICRO	MANUFACTURING																						
UDYAM REGISTRATION NUMBER	UDYAM-RJ-17-0029117																							
NAME OF ENTERPRISE	M/S NEERAJ EXPORTS																							
SOCIAL CATEGORY OF ENTREPRENEUR	General																							
NAME OF UNITS	<table border="1"> <thead> <tr> <th>SNo.</th> <th>Udyog Aadhaar Memorandum</th> <th colspan="2">Units Name</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>RJ17A0034267</td> <td colspan="2">NEERAJ EXPORTS</td> </tr> <tr> <td>2</td> <td></td> <td colspan="2">FILTROS INDIA</td> </tr> </tbody> </table>				SNo.	Udyog Aadhaar Memorandum	Units Name		1	RJ17A0034267	NEERAJ EXPORTS		2		FILTROS INDIA									
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DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS	02/03/2012																							
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## GENERAL PROPERTIES OF FILTROS (UK) FILTER PAPER

Grades	Reference Grades	Particle Retention Liquid (µm)	Filtration Speed	Ash %	Thickness (mm)	Weight (g/m <sup>2</sup> )
<b>Qualitative</b>						
2001	1	10 - 12	Medium	≤ 0.08	0.19	86-90
2002	2	7-9	Medium Slow	≤ 0.08	0.20	97-100
2003	3	5-7	Medium Slow	≤ 0.08	0.39	180-190
2004	4	20-25	Fast	≤ 0.08	0.21	90-95
2005	5	2-3	Very Slow	≤ 0.08	0.20	98-100
<b>Ashless Quantitative</b>						
1040	40	7-9	Medium Slow	≤ 0.007	0.18	88-92
1041	41	20-25	Fast	≤ 0.007	0.21	84-86
1042	42	2-3	Very Slow	≤ 0.007	0.19	98-100
1043	43	15-17	Medium Fast	≤ 0.007	0.22	95-97
1044	44	3-4	Slow	≤ 0.007	0.18	80-85
<b>Low Ash Filter Paper</b>						
2040	40	7-9	Medium Slow	≤ 0.045	0.20	90-92
2041	41	20-25	Fast	≤ 0.045	0.21	85-87
2042	42	2-3	Very Slow	≤ 0.045	0.20	100-102
<b>Hardened Low Ash</b>						
1050	50	2-4	Very Slow	≤ 0.015	0.18	98-100
1052	52	7-9	Medium Slow	≤ 0.015	0.18	95-97
1054	54	20-25	Fast	≤ 0.015	0.20	87-90
<b>Hardened Ashless</b>						
2540	540	7-10	Medium Slow	≤ 0.007	0.18	85-87
2541	541	20-25	Fast	≤ 0.007	0.18	82-84
2542	542	2-4	Very Slow	≤ 0.007	0.17	98-100
<b>Glass Microfiber</b>						
GFAA	GF/A	1.6	60	NA	0.26	52
GFBB	GF/B	1.0	200	NA	0.70	143
GFCC	GF/C	1.2	98	NA	0.26	52
GFDD	GF/D	2.7	40	NA	0.68	120
GFFF	GF/F	0.7	330	NA	0.43	75
MEPM 2000	EPM 2000	NA	NA	NA	0.45	80
GFAH 6	934 - AH	1.5	47	NA	0.33	64

## TECHNICAL PARAMETERS OF FILTER PAPERS

### 01. BASIS WEIGHT (GRAMMAGE)

**Unit of Measurement :  $\text{g/m}^2$**

Expresses the weight in grams of a square meter of manufactured paper. Standard applied:

UNE-EN-ISO 536:1995

according to which a sample of paper between 500 and 1000 mm is weighed on precision scale with a margin of error of 0.5%. Later, the area is calculated and the weight in grams is determined.

$g = (m/A) \times 10.000$  where: m is the mass of the sample in g & A is the area of the sample in  $\text{cm}^2$

### 02. THICKNESS

**Unit of measurement : mm.**

It is the distance between both faces of the paper Standard applied: UNE-EN 20534 ISO 534:1988.

To determine this

parameter, micrometer is used to test static load

### 03. ASH CONTENT

**Unit of measurement : %**

Calculated from the difference of weight between the calcination residue obtained with a muffle at  $800^\circ\text{C}$  in a platinum or porcelain crucible and the 10 grams sample of filter paper completely free of moisture according to the calculation Standard applied: UNE 57019

### 04. PORE SIZE

**Standard applied :  $\mu\text{m}$ .**

The pore is calculated by the medium valued obtained with a pore measurer. It is a parameter used in filter paper

### 05. KLEMM METHOD (CAPILLARY RISE OF THE WATER)

**Unit of measurement : mm/10min.**

The capillary rise according to Klemm indicates how far a strip of filter paper is moistened in 10 min when vertically dipped with one end into distilled water ( $20^\circ\text{C}$ ).



## 06. PARTICLE RETENTION

**Unit of measurement :  $\mu\text{m}$ .**

Corresponds to the lower measurement of the size of the particles stopped by the filter.

This parameter is very much used in filters with considerable capacity for depth retention of particles by various physical and chemical means (glass and quartz micro fiber most of all).

particle retention refers to the efficiency of filter papers in retaining certain precipitates. It is characterised by the permeability of the paper for precipitates of iron (III) oxyhydrate, lead sulphate, calcium oxalate and barium sulphate.

## 07. DRY BURSTING STRENGTH

For determination of the dry bursting strength the paper is clamped over a rubber diaphragm with an area of  $10\text{ cm}^2$ . The strain on the paper is then increased by applying an increasing air pressure, until the paper bursts. The dry bursting strength is accordance with DIN 53113 is stated in Kpa.

## 08. TENSILE STRENGTH

For determination of the tensile strength a paper strip (measuring  $180 \times 15\text{ mm}$ ) is subjected to vertical strain by applying increasing weight. The force expanded at the moment of tearing represents the tensile strength. Results are expressed in N/15 mm.

## 09. FILTRATION SPEED

For determination of the filtration speed in accordance with DIN 53137 the duration of flow of 10 ml distilled water through a quadrant-folded, freely suspended filter circle of 12.5 cm diameter is measured. Results are expressed in seconds.

## 10. WET STRENGTH

The wet strength of a paper is a measure for the mechanical stability of a paper in a wet or moist condition. For example, it can be determined as the tensile strength or the bursting strength (see above).

## INTRODUCTION OF FILTRATION MECHANISM

### Mechanisms of filtration



#### Depth retention

Refers to mechanisms of retention product in the interior of the filter. Some of the most important processes are as under:-

#### Electrostatic adsorption

According to the polarity of the filter fibers and of the particles that must go through it, in some cases, attraction occurs which makes these particles adhere to the fiber walls and particles smaller than the size indicated in the specifications of the filter are retained.



#### Effects of inertia

Some particle will literally remain stuck inside the network of fibers due to the high kinetic energy with which they penetrate the pores of the frame.

#### Sedimentation

The particles can be captured by the filter network and deposited by gravity in some of the interior space formed by the fibers.



In any case, the efficiency of retention of a filter paper is also determined by the other factors related to the liquid, which can be: the pH value, the viscosity and concentrations of the liquid to be filtered as well as the form and composition of the particles in suspension in it.

Other causes or properties of the filter also affect the efficiency of retention: level of refinement of the cellulose fibers, resistance to the moist state of the filter, thickness, nature of the surface, etc.

So due to the extremely complex mechanisms on which filtration depends, it is sometimes impossible to theoretically determine the most adequate filter for filtration. It is this moment when, in the case of difficult filtration, **it is essential to do some comparative testing of filtration between various samples of filter paper according to the parameters of retention that need.**

We are aware of the difficulties of some operations of filtration and because of this we are willing to help you resolve your problems of filtration for which we have our own laboratory for quality control and development of new products.



## ASH-LESS QUANTITATIVE FILTER PAPERS

(Ash content that is less than 0.007% for critical analysis and gravimeters)



### DESCRIPTION

Filtros (UK) Quantitative filter papers are made under strict quality control.

In manufacturing process, we use pure cotton linters pulp with a washing process with acids and final cleaning with demineralized (R.O.) water to achieve ash content of less than 0.007%.

Our filter papers are suitable for filtration with buchner funnels for quantitative analysis.

Quantitative filter papers are produced in different filtration speed and particle retention primarily in following grades.

### GRADE 1040 (Reference Grade - 40)

#### MEDIUM SLOW FILTRATION

- \* Determination of oils in aqueous samples.
- \* Determination of sediments in milk.
- \* Analysis of different components of cement and aqueous extracts from the floors.
- \* Soil Analysis.

### GRADE 1041 (Reference Grade - 41)

#### FAST FILTRATION

- \* Analysis of Foods.
- \* Analysis of floors.
- \* Determination of Heavy metals in the waters
- \* Filtration of silver sulfides, cadmium, iron, lead and manganese.

### GRADE 1042 (Reference Grade - 42)

#### VERY SLOW FILTRATION

- \* Retention of very fine particles of copper oxide.
- \* Soil Analysis.

Apart from the uses given in the above applications, Filtros (UK) quantitative filter papers have uses in many more Test Applications.

## TECHNICAL SPECIFICATIONS

Type	Pore Size	Grade	Ref. Grade	Filtration Speed	Initial Filtration Speed (Secs/100 ml) Herzberg Method	Grammage gr/m <sup>2</sup>	Thickness mm	Particle Retention (Liquid) (µm)	Ash %
Ashless Quantitative	8 µm	1040	40	Medium Slow	325-350	88-92	0.18	7-9	≤ 0.007
Ashless Quantitative	20 µm	1041	41	Fast	50-55	84-86	0.21	20-25	≤ 0.007
Ashless Quantitative	2.5 µm	1042	42	Very Slow	1850-1900	98-100	0.19	2-3	≤ 0.007
Ashless Quantitative	16 µm	1043	43	Medium Fast	150-160	95-97	0.22	15-17	≤ 0.007
Ashless Quantitative	3 µm	1044	44	Slow	950-1020	80-85	0.18	3-4	≤ 0.007
Hardened Low Ash	2.7 µm	1050	50	Very Slow	2650-2750	98-100	0.18	2-4	≤ 0.015
Hardened Low Ash	7 µm	1052	52	Medium Slow	225-250	95-97	0.18	7-9	≤ 0.015
Hardened Low Ash	22 µm	1054	54	Fast	35-40	87-90	0.20	20-25	≤ 0.015
Hardened Ashless	8 µm	2540	540	Medium Slow	190-210	85-87	0.18	7-10	≤ 0.007
Hardened Ashless	22 µm	2541	541	Fast	35-40	82-84	0.18	20-25	≤ 0.007
Hardened Ashless	2.7 µm	2542	542	Very Slow	2450-2550	98-100	0.17	2-4	≤ 0.007



## ASH-LESS QUANTITATIVE FILTER PAPERS

Type	Grade	Ref. Grade	Product Code	Size in mm	Circles/Sheets Per Pack
Ashless Quantitative	1040	40	1040-12.7-400C	12.7	400
Ashless Quantitative	1040	40	1040-090-100C	90	100
Ashless Quantitative	1040	40	1040-110-100C	110	100
Ashless Quantitative	1040	40	1040-125-100C	125	100
Ashless Quantitative	1040	40	1040-150-100C	150	100
Ashless Quantitative	1040	40	1040-185-100C	185	100
Ashless Quantitative	1040	40	1040-4657-100S	460x570	100
Ashless Quantitative	1041	41	1041-041-100C	41	100
Ashless Quantitative	1041	41	1041-090-100C	90	100
Ashless Quantitative	1041	41	1041-110-100C	110	100
Ashless Quantitative	1041	41	1041-125-100C	125	100
Ashless Quantitative	1041	41	1041-150-100C	150	100
Ashless Quantitative	1041	41	1041-185-100C	185	100
Ashless Quantitative	1041	41	1041-4657-100S	460x570	100
Ashless Quantitative	1042	42	1042-090-100C	90	100
Ashless Quantitative	1042	42	1042-110-100C	110	100
Ashless Quantitative	1042	42	1042-125-100C	125	100
Ashless Quantitative	1042	42	1042-150-100C	150	100
Ashless Quantitative	1042	42	1042-185-100C	185	100
Ashless Quantitative	1042	42	1042-240-100C	240	100
Ashless Quantitative	1042	42	1042-4657-100S	460x570	100
Ashless Quantitative	1043	43	1043-110-100C	110	100
Ashless Quantitative	1043	43	1043-125-100C	125	100
Ashless Quantitative	1044	44	1044-110-100C	110	100
Ashless Quantitative	1044	44	1044-125-100C	125	100
Hardened Low Ash	1050	50	1050-090-100C	90	100
Hardened Low Ash	1050	50	1050-110-100C	110	100
Hardened Low Ash	1050	50	1050-125-100C	125	100
Hardened Low Ash	1050	50	1050-150-100C	150	100
Hardened Low Ash	1050	50	1050-185-100C	185	100
Hardened Low Ash	1052	52	1052-110-100C	110	100
Hardened Low Ash	1052	52	1052-125-100C	125	100
Hardened Low Ash	1054	54	1054-110-100C	110	100
Hardened Low Ash	1054	54	1054-125-100C	125	100
Hardened Low Ash	1054	54	1054-150-100C	150	100
Hardened Low Ash	1054	54	1054-185-100C	185	100
Hardened Low Ash	1054	54	1054-4657-100S	460x570	100
Hardened Ashless	2540	540	2540-110-100C	110	100
Hardened Ashless	2540	540	2540-125-100C	125	100
Hardened Ashless	2540	540	2540-150-100C	150	100
Hardened Ashless	2541	541	2541-110-100C	110	100
Hardened Ashless	2541	541	2541-125-100C	125	100
Hardened Ashless	2541	541	2541-150-100C	150	100
Hardened Ashless	2542	542	2542-110-100C	110	100
Hardened Ashless	2542	542	2542-125-100C	125	100
Hardened Ashless	2542	542	2542-150-100C	150	100

More Information and Prices for other Quantitative Grades will be quoted on Request.

### ASHLESS CLIPPING

Type	Product Code	Weight
Ashless Clipping	2703-500G	500g/PK



## LOW ASH FILTER PAPERS

(Recommended for Low Ash Filter Paper analysis with high level precision)



## TECHNICAL SPECIFICATIONS

Type	Pore Size	Grade	Ref. Grade	Filtration Speed	Initial Filtration Speed (Secs/100 ml) Herzberg Method	Grammage gr/m <sup>2</sup>	Thickness mm	Particle Retention (Liquid) (µm)	Ash %
Low Ash	8 µm	2040	40	Medium Slow	325-350	90-92	0.20	7-9	≤ 0.045
Low Ash	20 µm	2041	41	Fast	50-55	85-87	0.21	20-25	≤ 0.045
Low Ash	2.5 µm	2042	42	Very Slow	1850-1900	100-102	0.20	2,3	≤ 0.045

## LOW ASH FILTER PAPERS

(Recommended for Low Ash Filter Paper analysis with high level precision)

Type	Grade	Ref. Grade	Product Code	Size in mm	Circles/Sheets Per Pack
Low Ash Filter Paper	2040	40	2040-090-100C	90	100
Low Ash Filter Paper	2040	40	2040-110-100C	110	100
Low Ash Filter Paper	2040	40	2040-125-100C	125	100
Low Ash Filter Paper	2040	40	2040-150-100C	150	100
Low Ash Filter Paper	2040	40	2040-4657-100S	460 x 570	100
Low Ash Filter Paper	2041	41	2041-090-100C	90	100
Low Ash Filter Paper	2041	41	2041-110-100C	110	100
Low Ash Filter Paper	2041	41	2041-125-100C	125	100
Low Ash Filter Paper	2041	41	2041-150-100C	150	100
Low Ash Filter Paper	2041	41	2041-4657-100S	460 x 570	100
Low Ash Filter Paper	2042	42	2042-090-100C	90	100
Low Ash Filter Paper	2042	42	2042-110-100C	110	100
Low Ash Filter Paper	2042	42	2042-125-100C	125	100
Low Ash Filter Paper	2042	42	2042-150-100C	150	100
Low Ash Filter Paper	2042	42	2042-4657-100S	460 x 570	100

More Information and Prices for other Low Ash Filter Paper Grades will be quoted on Request.





## QUALITATIVE FILTER PAPERS

(Recommended for Qualitative analysis with high level precision)



### DESCRIPTION

Filtros (UK) Qualitative filter paper grades are manufactured with wood based cellulose fibers with high purity. With different filtration speed and particle retention primarily in 4 grades.

Apart from the uses given in the above applications, Filtros (UK) qualitative filter papers have uses in many more General Purpose Test Applications.

### GRADE 2001 (Reference Grade - 1)

#### MEDIUM FILTRATION

- \* Analysis of Beer & Malt.
- \* Analysis of Black Smoke in the atmosphere and fertilizers.
- \* Soil Analysis.

### GRADE 2002 (Reference Grade - 2)

#### FAST FILTRATION

- \* Determination of Fat content.
- \* Filtration media samples precipitated as calcium oxalate, metal sulphate and thick precipitates as silver, Lead, Cadmium alkaline carbonate etc.
- \* Soil Analysis.

### GRADE 2003 (Reference Grade - 3)

#### MEDIUM SLOW FILTRATION

- \* Determination of sulphur and sulphate & some other properties in Aggregates.
- \* Separation of elements by Electrophoresis.
- \* Filtration of samples precipitated with high load.

### GRADE 2004 (Reference Grade - 4)

#### VERY FAST FILTRATION

- \* Food Analysis.
- \* Determination of Impurities in the iron & steel.
- \* Filtration of samples with coarse precipitates.

## TECHNICAL SPECIFICATIONS

Type	Pore Size	Grade	Ref. Grade	Filtration Speed	Initial Filtration Speed (Secs/100 ml) Herzberg Method	Grammage gr/m <sup>2</sup>	Thickness mm	Particle Retention (Liquid) (µm)	Ash %
Qualitative	11 µm	2001	1	Medium	145-160	86-90	0.19	10 - 12	≤ 0.08
Qualitative	8 µm	2002	2	Medium Slow	230-250	97-100	0.20	7-9	≤ 0.08
Qualitative	6 µm	2003	3	Medium Slow	320-340	180-190	0.39	5-7	≤ 0.08
Qualitative	20-25 µm	2004	4	Fast	30-40	90-95	0.21	20-25	≤ 0.08
Qualitative	2.5 µm	2005	5	Very Slow	1350-1450	98-100	0.20	2-3	≤ 0.08

## QUALITATIVE FILTER PAPERS

Type	Grade	Ref. Grade	Product Code	Size in mm	Circles/Sheets Per Pack
Qualitative	2001	1	2001-025-400C	25	400
Qualitative	2001	1	2001-047-100C	47	100
Qualitative	2001	1	2001-070-100C	70	100
Qualitative	2001	1	2001-090-100C	90	100
Qualitative	2001	1	2001-110-100C	110	100
Qualitative	2001	1	2001-125-100C	125	100
Qualitative	2001	1	2001-150-100C	150	100
Qualitative	2001	1	2001-185-100C	185	100
Qualitative	2001	1	2001-240-100C	240	100
Qualitative	2001	1	2001-320-100C	320	100
Qualitative	2001	1	2001-824-500S	75x100	500
Qualitative	2001	1	2001-3234-100S	320x340	100
Qualitative	2001	1	2001-4657-100S	460x570	100
Qualitative	2001	1	2001-4657-500S	460x570	500
Qualitative	2002	2	2002-070-100C	70	100
Qualitative Petroleum	2002	2	2002-090-100C	90	100
Qualitative	2002	2	2002-110-100C	110	100
Qualitative	2002	2	2002-125-100C	125	100
Qualitative	2002	2	2002-150-100C	150	100
Qualitative	2002	2	2002-4657-100S	460x570	100
Qualitative	2003	3	2003-070-100C	70	100
Qualitative	2003	3	2003-090-100C	90	100
Qualitative	2003	3	2003-110-100C	110	100
Qualitative	2003	3	2003-125-100C	125	100
Qualitative	2003	3	2003-150-100C	150	100
Qualitative	2003	3	2003-4657-100S	460x570	100
Qualitative	2004	4	2004-070-100C	70	100
Qualitative	2004	4	2004-090-100C	90	100
Qualitative	2004	4	2004-110-100C	110	100
Qualitative	2004	4	2004-125-100C	125	100
Qualitative	2004	4	2004-150-100C	150	100
Qualitative	2004	4	2004-185-100C	185	100
Qualitative	2004	4	2004-240-100C	240	100
Qualitative	2004	4	2004-320-100C	320	100
Qualitative	2004	4	2004-4657-100S	460x570	100
Qualitative	2005	5	2005-110-100C	110	100
Qualitative	2005	5	2005-125-100C	125	100
Qualitative	2113	113	2113-090-100C	090	100

More Information and Prices for other Qualitative Grades will be quoted on Request.

## GLASS MICROFIBER FILTERS (BINDER FREE)

(Recommended in analysis of air and water according to international standards)



### DESCRIPTION

New range of filters made exclusively with 100% borosilicate glass microfiber and free from any type of bonding agent. These filters are capable of combining rapid velocities of filtration with high loading capacities together with excellent retention of fine particles.

### PROPERTIES

#### Chemical stability

This microfibers filters have an excellent stability and base solutions of high concentration.

#### Thermal stability

Filters can withstand operating temperature up to 500°C.

#### Permeability

Glass microfibers filters have high permeability.

#### Retention of particles

These filters have an excellent level of retention of particles.

#### Load capacity

Due to its high apparent density, these filters have a large load capacity.

**Filtros (UK)** Glass micro fiber filters are primarily available in 6 grades.

### GRADE (GFAA) (Reference Grade GF/A)

- \* Control of emissions into atmosphere through high volume sensors.
- \* Determination of suspended solids in water according to EN 872 and standard method 2540D, as well as other analysis of water pollution.
- \* Biochemical investigations.
- \* Determination of the presence of the Ozone in the air

### GRADE (GFBB) (Reference Grade GF/B)

- \* Pre-Filtration of samples before membrane filtration.
- \* Clarification instrumental samples before analysis.
- \* Biochemical assays.

### GRADE (GFCC) (Reference Grade GF/C)

- \* Determination of suspended solids in water according to EN 872 and standard method 2540D, as well as other analysis of water pollution.
- \* Filtration of cell cultures.
- \* Filtration of samples prior to scintillation counting.

### GRADE (GFDD) (Reference Grade GF/D)

- \* Samples with high load of fine precipitates.
- \* Biochemical solutions.
- \* Determination of pollutants in animal fats and vegetable according LMBG.

### GRADE (GFFF) (Reference Grade GF/F)

- \* Analysis of organisms in marine waters.
- \* Biochemical Assays.
- \* Filtration of HPLC samples.
- \* Gravimetric analysis of paints and pigments

### GRADE (MEPM 2000) (Reference Grade EPM 2000)

- \* Made From 100% Borosilicate Glass. Binder free.
- Air retention efficiency of 99.95% of 0.3µm size particle.
- MEPM 2000 air filter are used in PM-10 sampling equipments.

### GRADE (GFAH 6) (Reference Grade GF/AH6)

- \* A high retention borosilicate glass microfiber filter Which withstands temperatures over 500
- \* It is recommended for water pollution monitoring cell harvesting. Liquid scintillation counting for air pollution monitoring

## TECHNICAL SPECIFICATIONS

Grade	Pore Size	Filtration Speed s/100ml	Basis weight g/m <sup>2</sup>	Thickness mm	Particle retention µm
GFAA	1.6	60	52	0.26	1.6
GFBB	1.0	200	143	0.70	1.0
GFCC	1.2	98	52	0.26	1.2
GFDD	2.7	40	120	0.68	2.7
GFFF	0.7	330	75	0.43	0.7
MEPM 2000	2.0	NA	80	0.45	2.0
GFFAH 6	1.5	47	64	0.33	1.5

## GLASS MICROFIBER FILTERS (BINDER FREE)

Grade	Ref. Grade	Product Code	Size in mm	Circles/Sheets Per Pack
GFAA	GF/A	GFAA-081 -100S	203x254	100
GFAA	GF/A	GFAA-025 -100C	25	100
GFAA	GF/A	GFAA-037 -100C	37	100
GFAA	GF/A	GFAA-047 -100C	47	100
GFAA	GF/A	GFAA-055 -100C	55	100
GFAA	GF/A	GFAA-070 -100C	70	100
GFAA	GF/A	GFAA-090 -100C	90	100
GFBB	GF/B	GFBB-025 -100C	25	100
GFBB	GF/B	GFBB-037 -100C	37	100
GFBB	GF/B	GFBB-047 -100C	47	100
GFBB	GF/B	GFBB-070 -100C	70	100
GFBB	GF/B	GFBB-090 -25C	90	025
GFCC	GF/C	GFCC-025 -100C	25	100
GFCC	GF/C	GFCC-037 -100C	37	100
GFCC	GF/C	GFCC-047 -100C	47	100
GFCC	GF/C	GFCC-055 -100C	55	100
GFCC	GF/C	GFCC-070 -100C	70	100
GFCC	GF/C	GFCC-090 -100C	90	100
GFCC	GF/C	GFCC-110 -100C	110	100
GFCC	GF/C	GFCC-125 -100C	125	100
GFCC	GF/C	GFCC-150 -100C	150	100
GFDD	GF/D	GFDD-025 -100C	25	100
GFDD	GF/D	GFDD-037 -100C	37	100
GFDD	GF/D	GFDD-047 -100C	47	100
GFDD	GF/D	GFDD-070 -100C	70	100
GFDD	GF/D	GFDD-090 -25C	90	025
GFFF	GF/F	GFFF-025 -100C	25	100
GFFF	GF/F	GFFF-037 -100C	37	100
GFFF	GF/F	GFFF-047 -100C	47	100
GFFF	GF/F	GFFF-070 -100C	70	100
GFFF	GF/F	GFFF-090 -25C	90	025
MEPM 2000	EPM 2000	MEPM 2000-081 -100S	203 X 254	100
GFFAH 6	934-AH	GFFAH 6-42.5-100C	42.5	100
GFFAH 6	934-AH	GFFAH 6-047-100C	47	100
GFFAH 6	934-AH	GFFAH 6-055-100C	55	100
GFFAH 6	934-AH	GFFAH 6-070-100C	70	100
GFFAH 6	934-AH	GFFAH 6-125-100C	125	100

More information and Prices for other Grades will be quoted on request.



## CELLULOSE EXTRACTION THIMBLES (Grade Ref. 603)

(Separation of compose made of solid material in extractors)



### PRODUCT DESCRIPTION

Filtros (UK) Cellulose extraction thimbles are known for their purity and consistent high quality. Cellulose extraction thimbles are made from high alpha cellulose and have excellent mechanical strength and retention. We offer you thimbles with very accurate dimensions, that is matched exactly to those of the thimble holders to ensure optimum fit.

### APPLICATIONS

These thimbles are widely used in Soxhlet extraction units and provide a safe, convenient and efficient method of solvent extraction of semi-solids and solids. Soxhlet extraction is a technique widely used for analysis of fats pesticides in food and soil materials and in many other procedures that involve solid-liquid extraction. Suitable for use in automatic extraction systems and Air monitoring especially in cold stack air monitoring. Extraction and quantification of components in industrial products: Paint, Animal fat, cosmetics, pavements, varnishes, lacquers etc.

### TECHNICAL SPECIFICATIONS

Tolerances Internal Diameter :  $+0/-0.5\text{mm}$

External Height :  $\pm 1\text{mm}$  Wall

Thickness :  $1.5\text{mm} \pm 0.5\text{mm}$

Ash Content :  $< 0.1\%$

Product code	Size in mm	No of pieces per pack
FETH-1990	19X90	025
FETH-2660	26X60	025
FETH-2280	22X80	025
FETH-2580	25X80	025
FETH-2880	28X80	025
FETH-3080	30X80	025
FETH-3380	33X80	025
FETH-25100	25X100	025
FETH-28100	28X100	025
FETH-30100	30X100	025
FETH-30118	30X118	025
FETH-33118	33X118	025
FETH-35150	35X150	025
FETH-43123	43X123	025

## GLASS FIBER EXTRACTION THIMBLES

### PRODUCT DESCRIPTION

**Filtros (UK)** Glass micro fiber thimbles are made from high purity Borosilicate glass fibres. They are completely free from binders and additives hence can be used upto a temperature of 500 degree centigrade. We offer you thimbles with very accurate dimensions, they fit standard soxhlet extractors.

### APPLICATIONS

These thimbles are widely used in Solvent extractions when the solvent is incompatible with cellulose thimbles. One of its major use is in stack monitoring because of its retention of 0.7 micron. Its typical thickness is 2.0mm.

### TECHNICAL SPECIFICATIONS

Tolerances

Internal Diameter : +0/-0.5mm

External Height : +/- 1mm Wall Thickness : 2mm +/- 0.5mm

Penetration : < 0.002 % DOP

Max. Temp : 500 Degree Centigrade

Product code Grade Ref.603	Size in mm	No of pieces per pack
FGTH-1990	19X90	025

Prices for other grade and sizes will be quoted on request

## SEED GERMINATION PAPERS

**FILTROS (UK)** seed testing papers have the characteristics required for germination substrate paper as follows:-

(A) Papers are made from pure cellulose and are sufficiently strong for the test and do not contain any substances which could influence the growth of seeds.

(B) These absorption papers store enough humidity for the entire test period.

(C) Their pH value is between 6.0 and 7.5

**Colour** : **Brown**  
**GSM** : **135g/m<sup>2</sup>**  
**Wet Strength** : **Normal**  
**Surface** : **Creped**



Cat. No.	Size In (cm)	Per Pack in Kg.
FSG 1218	12 x 18 cm	10



## PAPERS FOR CHROMATOGRAPHY

(Specially made as a holder in an enormous type of chromatography)



### DESCRIPTION

Filtros (UK) chromatography papers are made from pure cotton linters with an alpha cellulose content of 98% to ensure a low ash content and the virtual absence of metal contaminants.

Primary application is in the chromatography and electrophoresis.

The most important parameters that indicate the characteristics of the chromatographic papers are weight in grams, thickness and the speed of aspiration

Filtros (UK) chromatography papers are primarily available in 5 grades.

### GRADE CH01 (Reference Grade 1 CHR)

#### FINE, MEDIUM ASPIRATION

- \* General chromatography works.
- \* Determination of the presence of malic acid in wine.
- \* Practices in high school and university labs.

### GRADE CG02 (Reference Grade 2 CHR)

#### FINE, MEDIUM ASPIRATION

- \* General chromatography works.
- \* Determination of components by elution.

### GRADE CH03 (Reference Grade 3 CHR)

#### MEDIUM, MEDIUM ASPIRATION

- \* Separation of organic compounds.
- \* Electrophoresis works.
- \* Chromatography with a high charge of solutes.
- \* Separation and identification of additives in food.

### GRADE CH17 (Reference Grade 17 CHR)

#### THICK, MEDIUM ASPIRATION

- \* Electrophoresis with big molecular compounds.
- \* Analysis of proteins in serums.

### GRADE CH20 (Reference Grade 20 CHR)

#### VERY THICK, QUICK ASPIRATION

- \* Electrophoresis with big molecular compounds.

## TECHNICAL SPECIFICATIONS

Grade	Ref. Grade	Basis weight gr/m <sup>2</sup>	Thickness mm	Speed of aspiration
CH01	1 CHR	90	0.18	90-100 (mm/30min)
CH02	2 CHR	140	0.28	90-100 (mm/30min)
CH03	3 CHR	180	0.36	90-100 (mm/30min)
CH17	17 CHR	270	0.70	130-140 (mm/10min)
CH20	20 CHR	650	1.70	100-120 (mm/10min)

Grade	Ref. Grade	Product Code	Size in mm	No of sheets per pack
CH01	1 CHR	CH01-1030-100S	100x300	100
CH01	1 CHR	CH01-4657-100S	460x570	100
CH03	3 CHR	CH03-4657-100S	460x570	100

More information for prices and available sizes and other grades will be quoted on request.

## OUR RANGE OF SYRINGE FILTERS

Product Description Characteristics and Applications	Product Code	Size in MM	Pore size $\mu$ m	No of Pcs. (Per pack)
<b>NYLON (NY) SYRINGE FILTERS</b> <ul style="list-style-type: none"> <li>Naturally hydrophilic, low extractable.</li> <li>High protein binding capacity.</li> <li>Strength and dimensional stability.</li> <li>Sterilsation, clarification of aqueous and organic solvent solution.</li> </ul>	Non Sterile			
	FNYSF 1302	13	0.2	100
	FNYSF 1345	13	0.45	100
	FNYSF 2502	25	0.2	100
	FNYSF 2545	25	0.45	100
	FNYSF 3302	33	0.2	50
	FNYSF 3345	33	0.45	50
	Sterile			
	FNYSFI 2545	25	0.45	100
	Non Sterile			
<b>CELLULOSE ACETATE (CA) SYRINGE FILTERS</b> <ul style="list-style-type: none"> <li>Hydrophilic, Low Protein binding.</li> <li>Uniform pore structure, consist flow rate.</li> <li>Superior Strength and stability</li> <li>Cell culture and Tissue culture media Sterilsation.</li> <li>Protein &amp; enzyme Filtration.</li> <li>Biological Fluid Filtration Sterilsation.</li> </ul>	FCASF 1302	13	0.2	100
	FCASF 1345	13	0.45	100
	FCASF 2502	25	0.2	100
	FCASF 2545	25	0.45	100
	Sterile			
	FCASFI 2502	25	0.2	50
	FCASFI 3302	33	0.2	50
	FCASFI 3345	33	0.45	50
	Non Sterile			
	FPVDFSF 1302	13	0.2	100
<b>PVDF SYRINGE FILTERS</b> <ul style="list-style-type: none"> <li>Hydrophilic, high binding Capacity.</li> <li>Uniform pore structure, for selectivity.</li> <li>Consistent High flow rate.</li> <li>Sterilsation &amp; Clarifying filtration organic Solutions.</li> <li>Analytical sample Preparations.</li> <li>Chromatography.</li> </ul>	FPVDFSF 1345	13	0.45	100
	FPVDFSF 2502	25	0.2	100
	FPVDFSF 2545	25	0.45	100
	Sterile			
	FPVDFSFI 2502	25	0.2	50
	FPVDFSFI2545	25	0.45	50
	Sterile			
	FPVDFHLFI 2502	25	0.2	50
	FPVDFHLFI 2545	25	0.45	50
	Non Sterile			
<b>HYDROPHILIC PVDF SYRINGE FILTERS</b> <ul style="list-style-type: none"> <li>Hydrophilic, high binding Capacity.</li> </ul>	FPTFEHBSF 1302	13	0.2	100
	FPTFEHBSF 1345	13	0.45	100
	FPTFEHBSF 2502	25	0.2	100
	FPTFEHBSF 2545	25	0.45	100
	Sterile			
	FPTFEHBSFI 2502	25	0.2	50
	FPTFEHBSFI 2545	25	0.45	50
	Non Sterile			
	FPTFEHBSF 1302	13	0.2	100
	FPTFEHBSF 1345	13	0.45	100
<b>HYDROPHOBIC PTFE SYRINGE FILTERS</b> <ul style="list-style-type: none"> <li>Naturally &amp; hydrophobic.</li> <li>Compatible with strong acids and aggressive solutions.</li> <li>Improved durability &amp; handling.</li> <li>Filtration of strong acids &amp; aggressive solutions.</li> <li>Venting application.</li> <li>Phase separation &amp; Aerosol sampling.</li> </ul>	FPTFEHBSF 2502	25	0.2	100
	FPTFEHBSF 2545	25	0.45	100
	Sterile			
	FPTFEHBSFI 2502	25	0.2	50
	FPTFEHBSFI 2545	25	0.45	50
	Non Sterile			
	FPTFEHBSF 1302	13	0.2	100
	FPTFEHBSF 1345	13	0.45	100
	FPTFEHBSF 2502	25	0.2	100
	FPTFEHBSF 2545	25	0.45	100



SYRINGE FILTERS



## OUR RANGE OF SYRINGE FILTERS

	Product Code	Size in MM	Pore size $\mu$ m	No of Pcs. (Per pack)
<b>HYDROPHILIC PTFE SYRINGE FILTERS</b> • Filtration of Samples of Aggressive Samples, Acids & Bases.	Sterile			
	FPTFESHLFI 3302	33	0.2	50
	FPTFESHLFI 3345	33	0.45	50
<b>HYDROPHILIC PTFE SYRINGE FILTERS</b> • High Run Flow • Excellent Physical Resistance	Non Sterile			
	FPTFEHLSF 1302	13	0.2	100
	FPTFEHLSF 1302	13	0.45	100
	FPTFEHLSF 2502	25	0.2	100
	FPTFEHLSF 2545	25	0.45	100
<b>PES SYRINGE FILTERS</b> • High Velocity of Filtration. • Low level of Extractable.	Non Sterile			
	FPESF 2502	25	0.2	100
	FPESF 2545	25	0.45	100
	FPESF 3302	33	0.2	50
	FPESF 3345	33	0.45	50
	FPESF 3380	33	0.80	50
	Sterile			
	FPESFI 1302	13	0.2	100
	FPESFI 1345	13	0.45	100
	FPESFI 2502	25	0.2	50
	FPESFI 2545	25	0.45	50
	Non Sterile			
<b>GLASS FIBER SYRINGE FILTERS</b> • High retention efficiency of 99%. Useful for relatively dirty solutions are to be clarified or for pre-filtration. • For high throughput, sample cleaning, particle removal. • Can be used along or in series with another Filtros UK glass fiber syringe filters.	FGFSY 1310	13	1.0	100
	FGFSY 2510	25	1.0	100
	FGFSY 3310	33	1.0	100
	FGFSY 2545	25	0.45	100

## AIR VENT FILTERS

	Product Code	Size in MM	Pore size $\mu$ m	No of Pcs. (Per pack)
<b>PTFE AIR VENT FILTERS</b>	Non Sterile			
	FPTFEAVF 5002	50	0.2	12

We can provide all grades & sizes of MEMBRANE, SYRINGE & AIR VENT Filters.  
 More information & prices for other grades will be quoted on request.

## DOUBLE LAYERED SYRINGE FILTER (DL) - NON STERILE

### Product Description

- Syringe filters with pre-filter (glass fiber filter) enhance the throughput rate by retention of particle > 2.0 micron size at pre filtration stage.
- Syringe filters with pre-filter (glass fiber filter) are suitable for highly turbid or milky solutions.
- They are widely applicable for filtration of colloidal solutions.
- Also used in the filtration of typical filter solution (viscous solutions)

### DOUBLE LAYERED SYRINGE FILTER NYLON

Cat. No.	Size In (mm)	Pore Size	Glass Fiber Rating	Circles/Sheets Per Pack
FGFNYSF 1302	13	0.2 µm	1.00 µm	100
FGFNYSF 1345	13	0.45 µm	1.00 µm	100
FGFNYSF 2502	25	0.2 µm	1.00 µm	100
FGFNYSF 2545	25	0.45 µm	1.00 µm	100

### DOUBLE LAYERED SYRINGE FILTER PVDF

Cat. No.	Size In (mm)	Pore Size	Glass Fiber Rating	Circles/Sheets Per Pack
FGFPVDFSF 1302	13	0.2 µm	1.00 µm	100
FGFPVDFSF 1345	13	0.45 µm	1.00 µm	100
FGFPVDFSF 2502	25	0.2 µm	1.00 µm	100
FGFPVDFSF 2545	25	0.45 µm	1.00 µm	100

### DOUBLE LAYERED SYRINGE FILTER PES

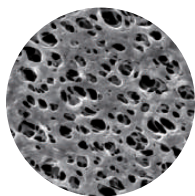
Cat. No.	Size In (mm)	Pore Size	Glass Fiber Rating	Circles/Sheets Per Pack
FGFPESF 1302	13	0.2 µm	1.00 µm	100
FGFPESF 1345	13	0.45 µm	1.00 µm	100
FGFPESF 2502	25	0.2 µm	1.00 µm	100
FGFPESF 2545	25	0.45 µm	1.00 µm	100

### DOUBLE LAYERED SYRINGE FILTER PTFE ( Hydrophobic)

Cat. No.	Size In (mm)	Pore Size	Glass Fiber Rating	Circles/Sheets Per Pack
FGFPTFESF 1302	13	0.2 µm	1.00 µm	100
FGFPTFESF 1345	13	0.45 µm	1.00 µm	100
FGFPTFESF 2502	25	0.2 µm	1.00 µm	100
FGFPTFESF 2545	25	0.45 µm	1.00 µm	100



## NYLON (NY) MEMBRANE FILTERS



### Description

Hydrophilic membrane. Ideal for use in general filtration or medical assays. Superior strength, resistant to a range of organic solvents. Low extractables. High protein binding capacity. Very high lot-to-lot consistency.

### Characteristics

- Naturally hydrophilic
- Wide chemical compatibility range
- Strength and dimensional stability
- Low extractables

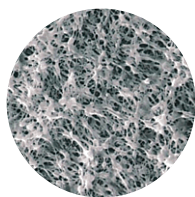
### Applications

- Sterilization, clarification of aqueous and organic solvent solutions.
- Analytical sample preparation
- Chromatography
- Hydraulic Fluids and Machined Parts

### NYLON MEMBRANE FILTERS (HYDROPHILIC)

Cat. No.	Size In (mm)	Pore Size	Circles/Sheets Per Pack
FNYM 1302	13	0.2 µm	100
FNYM 1345	13	0.45 µm	100
FNYM 1301	13	0.1 µm	100
FNYM 2502	25	0.2 µm	100
FNYM 2545	25	0.45 µm	100
FNYM 2501	25	0.1 µm	100
FNYM 4702	47	0.2 µm	100
FNYM 4745	47	0.45 µm	100
FNYM 4701	47	0.1 µm	100
FNYM 4708	47	0.8 µm	100

## HYDROPHILIC POLYTETRAFLUOROETHYLENE (PTFE HP) MEMBRANE FILTERS (NON STERILE)



### Description

PTFE HP membrane is compatible with organic solvents, acids, and basic solutions. Hydrophilic PTFE membrane has low drug and protein binding properties with excellent aqueous and solvent compatibility. High sample recoveries and low ion and UV extractables provide for ideal analysis by µHPLC and LC/ MS.

### Characteristics

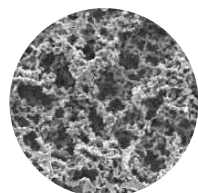
- No need to pre-wet the membrane
- No need to flush membrane of pre-wetting chemicals
- No pre-wetting means production time reduction
- Reduce potential interference with biological processes
- Longer shelf life because the filters are stored and

### Applications

- \* Molecular identification & Structural determination, \* Pharmacokinetics, \* Drug discovery and development (drug testing), \* Environmental monitoring, \* Food safety monitoring, \* Oil composition

Cat. No.	Size In (mm)	Pore Size	Circles/Sheets Per Pack
FPTFEHP 1302	13	0.2 µm	100
FPTFEHP 1345	13	0.45 µm	100
FPTFEHP 2502	25	0.2 µm	100
FPTFEHP 2545	25	0.45 µm	100
FPTFEHP 4702	47	0.2 µm	100
FPTFEHP 4745	47	0.45 µm	100

## MIXED CELLULOSE ESTERS MEMBRANE FILTERS (MCE)



### Description

Hydrophilic membrane. Aqueous clarification and particulate capture. Consistent high flow rate for faster filtration. Uniform pore structure for selectivity. Hydrophilic, inert cellulose nitrate. High binding capacity.

### Characteristics

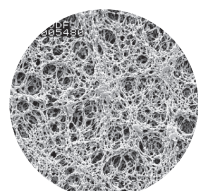
- Hydrophilic for aqueous clarification and particulate capture
- Consistent high flow rate for faster filtration
- Uniform pore structure for selectivity
- Hydrophilic, inert cellulose nitrate
- High binding capacity
- Manufactured thickness within 10 microns

### Applications

- Filtration of Aqueous and Organic Solutions
- Analytical Sample Preparation
- Chromatography
- Clarification

Cat. No.	Size In (mm)	Pore Size	Circles/Sheets Per Pack
FMCEM 2502	25	0.2 µm	100
FMCEM 2545	25	0.45 µm	100
FMCEM 4702	47	0.2 µm	100
FMCEM 4745	47	0.45 µm	100

## POLYVINYLIDENE FLUORIDE HYDROPHILIC (PVDF) MEMBRANE FILTERS



### Description

Hydrophilic membrane. Ideal for use in Sterilizing and Clarifying filtration of biological solutions. High Flow Rates. Low Extractables. Broad Chemical Compatibility. Very low protein binding.

### Characteristics

- Hydrophilic for aqueous clarification and particulate capture
- Consistent high flow rate for faster filtration
- Uniform pore structure for selectivity
- Hydrophilic, inert cellulose nitrate
- High binding capacity
- Manufactured thickness within 10 microns

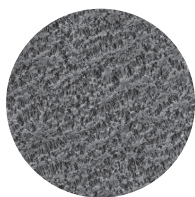
### Applications

- Filtration of Aqueous and Organic Solutions
- Analytical Sample Prep
- Chromatography
- Clarification

Cat. No.	Size In (mm)	Pore Size	Circles/Sheets Per Pack
FPVDFM 1302	13	0.2 µm	100
FPVDFM 1345	13	0.45 µm	100
FPVDFM 2502	25	0.2 µm	100
FPVDFM 2545	25	0.45 µm	100
FPVDFM 4702	47	0.2 µm	100
FPVDFM 4745	47	0.45 µm	100



## POLYTETRAFLUOROETHYLENE (PTFE) MEMBRANE FILTERS (HYDROPHOBIC)



### Description

Hydrophobic membrane. Ideal for filtration of strong acids and aggressive solutions, venting applications, phase separations, aerosol samplings. Chemically and biologically inert. Superior chemical resistance. Can withstand

### Characteristics

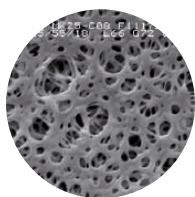
- Naturally hydrophobic
- Compatible with strong acids and aggressive solutions
- Improved durability and handling

### Applications

- Filtration of strong acids and aggressive solutions
- Venting applications
- Phase separations

Cat. No.	Size In (mm)	Pore Size	Circles/Sheets Per Pack
FPTFEM 1302	13	0.2 µm	100
FPTFEM 1345	13	0.45 µm	100
FPTFEM 2502	25	0.2 µm	100
FPTFEM 2545	25	0.45 µm	100
FPTFEM 4702	47	0.2 µm	100
FPTFEM 4745	47	0.45 µm	100

## POLYETHERSULFONE (PES) MEMBRANE FILTERS



### Description

Hydrophilic membrane. Designed to remove particulates during general filtration. Low protein and drug binding characteristics make it ideally suited for use in life science applications, maximizing recovery of critical drugs used in I.V. therapy, chemotherapy and open-heart surgery. Its strength and durability are advantageous during usage that involves aggressive handling or automated equipment. Low protein and drug binding characteristics

### Characteristics

- Very Low Protein Binding
- Fast Flow Rates
- Low Extractables
- Wide Chemical Compatibility Range
- Strength and Dimensional Stability

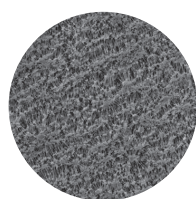
### Applications

- Protein and enzyme filtration sterilization
- Biological fluid filtration sterilization
- Tissue culture media sterilization
- Pharmaceutical sterilizing filtration
- Environmental water studies
- Filtration of Aqueous Solutions
- Analytical Sample Preparation
- IC Chromatography

Cat. No.	Size In (mm)	Pore Size	Circles/Sheets Per Pack
FPESM 1302	13	0.2 µm	100
FPESM 1345	13	0.45 µm	100
FPESM 2502	25	0.2 µm	100
FPESM 2545	25	0.45 µm	100
FPESM 4702	47	0.2 µm	100
FPESM 4745	47	0.45 µm	100

## CELLULOSE NITRATE MEMBRANE FILTERS (NON STERILE)

(White Plain C.N. Circles)



### Description

Recommended for clarification and sterilisation of aqueous solutions, microbiological analysis and particle counts

### Applications

- Particle size analysis
- Pre-filtration and clarification of samples prior to further analysis
- Removal of particles in suspensions to determine the degree of impurity
- Measurement of sewage sludge in clarification plants

### Characteristics

- Made of cellulose nitrate, hydrophilic
- Very high flow rate
- High non-specific adsorption
- Very uniform pore structure which ensures homogeneous distribution of the particles retained on the filter surface

Cat. No.	Size In (mm)	Pore Size	Circles/Sheets Per Pack
FCNM 1302	13	0.2 µm	100
FCNM 1345	13	0.45 µm	100
FCNM 2501	25	0.1 µm	100
FCNM 2502	25	0.2 µm	100
FCNM 2545	25	0.45 µm	100
FCNM 2508	25	0.8 µm	100
FCNM 4701	47	0.1 µm	100
FCNM 4702	47	0.2 µm	100
FCNM 4745	47	0.45 µm	100
FCNM 4765	47	0.65 µm	100
FCNM 4708	47	0.8 µm	100
FCNM 4712	47	1.2 µm	100
FCNM 4720	47	2.0 µm	100
FCNM 4730	47	3.0 µm	100
FCNM 4750	47	5.0 µm	100
FCNM 4780	47	8.0 µm	100

## CELLULOSE NITRATE GRIDDED MEMBRANE FILTERS (STERILE)

(Ideal for membrane microbiology analysis - individually packed white membrane with black grid filter media c.n)

Cat. No.	Size In (mm)	Pore Size	Circles/Sheets Per Pack
FCNG 4745	47	0.45 µm	100

## PM 2.5 AIR MONITORING MEMBRANE

Filter Media - PTFE & Support Ring Media : Polypropylene.

Cat. No.	Size In (mm)	Pore Size	Circles/Sheets Per Pack
FPTFEM 46220	46.2	2.0 µm	50

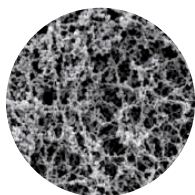
## GLASS FIBER (GF) PRE FILTERS

Cat. No.	Size In (mm)	Pore Size	Circles/Sheets Per Pack
FGFP 14215	142	1.5 µm	50
FGFP 29315	293	1.5 µm	50
FGFP 29320	293	2.0 µm	50



## CELLULOSE ACETATE (CA) MEMBRANE FILTERS (NON STERILE)

(Colour white, Surface Plain, Hydrophilic)



### Description

Hydrophilic membrane. Low protein binding. Ideal for protein, cell culture media and enzymes filtrations, tissue culture media sterilization, biological fluid filtration and other filtration applications where maximum

### Characteristics

- Low protein binding, 3.8 µg/cm<sup>2</sup>
- Hydrophilic
- High throughput
- Superior strength and stability
- Uniform pore structure, consistent flow rates
- Burst strength of 130 psi

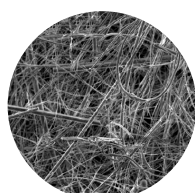
### Applications

- Protein and enzyme filtration
- Biological fluid filtration sterilization
- Tissue culture media sterilization
- Clarification of aqueous and alcohol solutions

Cat. No.	Size In (mm)	Pore Size	Circles/Sheets Per Pack
FCAM 1302	13	0.2 µm	100
FCAM 1345	13	0.45 µm	100
FCAM 2502	25	0.2 µm	100
FCAM 2545	25	0.45 µm	100
FCAM 4702	47	0.2 µm	100
FCAM 4745	47	0.45 µm	100

## GLASS FIBER (GF) MEMBRANE FILTERS

(Ideal for pre-filtration)



### Description

Hydrophilic material. Used also as a pre-filter to extend membrane life. Eliminate sample contamination. Excellent wet strength for each handling and filter integrity. Ideal for water/air pollution analysis, liquid clarification and cell harvesting.

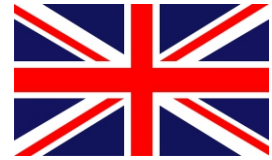
### Characteristics

- Acrylic binder
- High dirt holding capacity
- Biologically inert
- Bonding reduces media migration

### Applications

- Filtration of Aqueous and Organic Solutions
- Analytical Sample Preparation
- Difficult to Filter Solutions
- Fuel Hydraulic Fluids and Machined Parts

Cat. No.	Size In (mm)	Pore Size	Circles/Sheets Per Pack
FGFM 1302	13	0.2 µm	100
FGFM 2502	25	0.2 µm	100
FGFM 4702	47	0.2 µm	100
FGFM 5002	50	0.2 µm	100
FGFM 1303	13	0.3 µm	100
FGFM 4730	47	3.0 µm	100



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