



# Fioroni Filters

[www.filtres-fioroni.com](http://www.filtres-fioroni.com)

## Filtration and separation Technology





Dear Customers,

Fioroni , the French filters company, was founded in 1876 and specialises in the manufacture and sale of filters and filtration media for use in laboratories and by industry.

We have a very wide and complete range of products at very competitive prices which we market in Europe and throughout the world.

We stock more than 1000 products for numerous business sectors: laboratories, agri - feed companies, industry, chemicals, research, the environment, teaching, hospitals, pharmacies, the medical field, etc.

Product quality has always been our first priority and we have set up rigorous quality policies with control procedures throughout the manufacturing process including, of course, product traceability. Moreover our company is ISO 9001 (version 2008) certified under n° 2007/30173a.

The flexibility of our organisation as a medium-sized company enables us to be responsive and attentive to our customers' requirements and all of the staff in the company are committed to satisfying your needs. This flexibility enables us also to produce as OEM and provide personalised packaging for a number of French and foreign distributors.

We do our best to serve you as soon as possible and to offer you the best quality of service and we are attentive to your suggestions using, amongst others, our customer satisfaction feedback surveys.

We trust that you will enjoy this new catalogue and thank you for your continued confidence in us.

D. LEVACHER  
CEO

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# General purpose filter papers

## Grade 122

Filter paper used for all general works in laboratories. Very fast filtration velocity

## Grade 600

Economical filter paper used in schools and as bench protective paper.

## Grade 601

Filter paper used in analytical works in laboratories. Medium filtration velocity

## Grade 603 / Grade 607

Thin filter paper. Fast filtration velocity.

### APPLICATIONS

- General works
- Hospitals
- Research laboratories
- Schools
- Chemical industries, pharmaceutical, cosmetic, food and beverage, etc...



## Technical specifications

Grade	Weight g/m <sup>2</sup>	Thickness mm	Pore size µm	Filtration vel. sec*	Burst strength Kg/cm <sup>2</sup>
122	73	0,17	17-30	22	1,25
600	64	0,15	10-20	50	1,45
601	73	0,16	5-13	88	1,95
603	60	0,14	35-65	25	1,05
607	50	0,12	17-30	22	0,25

\*According to DIN 53137

# General purpose filter papers



## Ordering informations

Size mm	 plain disc	 Folded disc	Pack.
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### Grade 122

25	0122A00001	-	100
35	0122A00021	-	100
42.5	0122A00022	-	100
45	0122A00002	-	100
55	0122A00003	-	100
70	0122A00004	0122P00021	100
90	0122A00005	-	100
100	0122A00006	0122P00022	100
110	0122A00007	0122P00032	100
125	0122A00008	-	100
130	0122A00009	0122P00023	100
135	0122A00031	-	100
150	0122A00010	0122P00024	100
185	0122A00011	-	100
190	0122A00012	0122P00025	100
200	0122A00019	-	100
210	0122A00013	0122P00034	100
240	0122A00020	-	100
250	0122A00014	0122P00026	100
270	0122A00029	-	100
320	0122A00023	-	100
330	0122A00015	0122P00027	100
400	0122A00016	0122P00028	100
450	0122A00017	0122P00029	100
500	0122A00018	0122P00030	100
520x520	0122F00034	-	500
600x600	0122F00033	-	500

Size mm	 plain disc	 Folded disc	Pack.
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### Grade 600

42.5	0600A00032	-	100
47	0600A00002	-	100
55	0600A00003	-	100
70	0600A00004	0600P00021	100
90	0600A00005	-	100
100	0600A00006	0600P00022	100
110	0600A00007	-	100
125	0600A00008	-	100
130	0600A00009	0600P00023	100
150	0600A00010	0600P00024	100
185	0600A00011	-	100
190	0600A00012	0600P00025	100
210	0600A00013	0600P00035	100
240	0600A00019	-	100
250	0600A00014	0600P00026	100
270	0600A00027	-	100
320	0600A00018	-	100
330	0600A00030	0600P00027	100
400	0600A00033	0600P00028	100
450	0600A00034	0600P00029	100
500	0600A00020	0600P00030	100

Size mm	 plain disc	 Folded disc	Pack.
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### Grade 601

42.5	0601A00001	-	100
47	0601A00002	-	100
55	0601A00003	-	100
70	0601A00004	0601P00021	100
85	0601A00005	-	100
90	0601A00006	-	100
100	0601A00025	0601P00022	100
110	0601A00007	-	100
125	0601A00008	-	100
130	0601A00009	0601P00023	100
150	0601A00010	0601P00024	100
185	0601A00011	-	100
190	0601A00012	0601P00025	100
210	0601A00013	-	100
240	0601A00014	-	100
250	0601A00019	0601P00026	100
270	0601A00015	0601P00033	100
320	0601A00016	-	100
330	0601A00030	0601P00027	100
385	0601A00017	-	100
400	0601A00018	0601P00028	100
450	0601A00032	0601P00029	100
500	0601A00020	0601P00030	100
450x450	0601F00027	-	500
460x570	0601F00023	-	100

Size mm	 Sheet	 Folded sheet	Pack.
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### Grade 603

42x52	0603F00021	0603M00001	500
50x105	0603F00024	-	500
50x110	0603F00022	-	500
65x135	0603F00023	-	500

Size mm	 Sheet	 Folded sheet	Pack.
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### Grade 600

42x52	0600F00021	0600M00001	500
52x52	0600F00022	-	500
42x52	-	0600M00003	25
46x57	0600F00026	-	100
50x50	0600F00030	-	500
60x60	0600F00033	-	500



Other sizes on request



# Qualitative filter paper

The extremely pure filter paper grades are made of cellulose fibres with an alpha content of nearly 100% according precise norms.

The ash content for these grades is approximatively **0,06 %**.

## APPLICATIONS

- Chemistry industry
- Food industry
- Beverage industry
- Atmospheric analysis
- Essential and industrial oils

### **Grade 111**      **Fast filtering**

Application : for coarse and voluminous precipitates like hydroxides and sulphides.

### **Grade 112**      **Medium fast filtering**

Application : typical grade for qualitative tasks most of sulphides, beer and malt analysis.

### **Grade 113**      **Medium filtering**

Application : suitable for fast filtration of liquid with fine particles

### **Grade 114**      **Slow filtering**

Application : baryum, lead, zinc and nickel sulphates, hydroxide and fluoride of calcium.

### **Grade 115**      **Very slow filtering**

Application : baryum sulphate, metastannic acid, cuprous oxide, etc.

### **Grade 118**      **Very slow filtering**

Application : for extremely difficult filtration, clarification of wine, etc...

### **Grade 132**      **Low grease content**

Application : for natural substances, fats in dairy products

## Technical specifications

Grade	Weight g/m <sup>2</sup>	Thickness mm	Pore size µm	Filtration vel. sec*	Burst strength Kg/cm <sup>2</sup>
<b>111</b>	84	0,20	12-15	10	> 0,30
<b>112</b>	84	0,17	8-12	20	< 0,30
<b>113</b>	87	0,16	5-8	50	> 0,10
<b>114</b>	84	0,14	3-5	100	> 0,30
<b>115</b>	84	0,14	2-3	180	> 0,30
<b>118</b>	80	0,14	1-2	300	> 0,30
<b>132</b>	80	0,16	8-12	20	> 0,20

\*According to DIN 53137

# Qualitative filter paper



## Ordering informations



Size  
mm plain disc Folded disc Pack.

### Réf. 111

Size (mm)	plain disc	Folded disc	Pack.
25	0111A00023	-	100
45	0111A00002	-	100
55	0111A00003	-	100
70	0111A00004	0111P00021	100
90	0111A00005	0111P00022	100
110	0111A00006	0111P00023	100
125	0111A00007	0111P00024	100
135	0111A00008	-	100
150	0111A00009	0111P00025	100
185	0111A00010	0111P00026	100
210	0111A00011	0111P00028	100
240	0111A00012	0111P00027	100
270	0111A00022	0111P00031	100
320	0111A00014	0111P00029	100



Size  
mm plain disc Folded disc Pack.

### Réf. 112

Size (mm)	plain disc	Folded disc	Pack.
25	0112A00023	-	100
45	0112A00002	-	100
55	0112A00003	-	100
70	0112A00004	0112P00021	100
90	0112A00005	0112P00022	100
110	0112A00006	0112P00023	100
125	0112A00007	0112P00024	100
135	0112A00008	-	100
150	0112A00009	0112P00025	100
185	0112A00010	0112P00026	100
210	0112A00011	0112P00031	100
240	0112A00012	0112P00027	100
270	0112A00022	0112P00028	100
320	0112A00014	0112P00029	100



Size  
mm plain disc Folded disc Pack.

### Réf. 113

Size (mm)	plain disc	Folded disc	Pack.
25	0113A00023	-	100
45	0113A00002	-	100
55	0113A00003	-	100
70	0113A00004	0113P00021	100
90	0113A00005	0113P00022	100
110	0113A00006	0113P00023	100
125	0113A00007	0113P00024	100
135	0113A00008	-	100
150	0113A00009	0113P00025	100
185	0113A00010	0113P00026	100
210	0113A00011	0113P00031	100
240	0113A00012	0113P00027	100
270	0113A00022	0113P00028	100
320	0113A00014	0113P00029	100

### Réf. 114

Size (mm)	plain disc	Folded disc	Pack.
25	0114A00023	-	100
45	0114A00002	-	100
55	0114A00003	-	100
70	0114A00004	0114P00021	100
90	0114A00005	0114P00022	100
110	0114A00006	0114P00023	100
125	0114A00007	0114P00024	100
135	0114A00008	-	100
150	0114A00009	0114P00025	100
185	0114A00010	0114P00026	100
210	0114A00011	0114P00031	100
240	0114A00012	0114P00027	100
270	0114A00022	0114P00028	100
320	0114A00014	0114P00029	100

### Réf. 115

Size (mm)	plain disc	Folded disc	Pack.
25	0115A00023	-	100
45	0115A00002	-	100
55	0115A00003	-	100
70	0115A00004	0115P00021	100
90	0115A00005	0115P00022	100
110	0115A00006	0115P00023	100
125	0115A00007	0115P00024	100
135	0115A00008	-	100
150	0115A00009	0115P00025	100
185	0115A00010	0115P00026	100
210	0115A00011	0115P00031	100
240	0115A00012	0115P00027	100
270	0115A00022	0115P00028	100
320	0115A00014	0115P00029	100

### Réf. 118

Size (mm)	plain disc	Folded disc	Pack.
25	0118A00023	-	100
45	0118A00002	-	100
55	0118A00003	-	100
70	0118A00004	0118P00021	100
90	0118A00005	0118P00022	100
110	0118A00006	0118P00023	100
125	0118A00007	0118P00024	100
135	0118A00008	-	100
150	0118A00009	0118P00025	100
185	0118A00010	0118P00026	100
210	0118A00011	0118P00031	100
240	0118A00012	0118P00027	100
270	0118A00022	0118P00028	100
320	0118A00014	0118P00029	100

### Réf. 132

Size (mm)	plain disc	Folded disc	Pack.
25	0132A00023	-	100
45	0132A00002	-	100
55	0132A00003	-	100
70	0132A00004	0132P00021	100
90	0132A00005	0132P00022	100
110	0132A00006	0132P00023	100
125	0132A00007	0132P00024	100
135	0132A00008	-	100
150	0132A00009	0132P00025	100
185	0132A00010	0132P00026	100
210	0132A00011	0132P00031	100
240	0132A00012	0132P00027	100
270	0132A00022	0132P00028	100
320	0132A00014	0132P00029	100





# Quantitative filter papers (ashless)

The ashless filter paper grades are made with 100% cotton linters fibres. As quantitative analysis requires a high purity, these papers have been washed out with acid and finally cleaned with demineralized water.

The ash content is **0,007 %**.

## APPLICATIONS

- Chemical industry
- Food industry
- Beverage industry
- Atmospheric analysis

### Grade 11 **Fast filtering**

Wide pores filter paper used for coarse and voluminous precipitates such as iron, aluminium and chromium hydroxides, Si-determination in steel and pig iron analysis

### Grade 12 **Medium fast filtering**

Most commonly used grade for coarser precipitates such as lead, iron and silver sulphide, alkali carbonates, lead chromate, arsenic, antimony, cadmium, food stuffs.

### Grade 13 **Medium filtering**

Medium pore filter paper used for fine precipitates such as magnesium ammonium phosphate, calcium oxalate, magnesium ammonium arsenate, coarser forms of barium sulphate.

### Grade 14 **Slow filtering**

Narrow pores filter paper used in fine precipitates such as lead dioxide, calcium fluoride, nickel sulphide, zinc sulphide, dioxide and molybdate of lead..

### Grades 15 and 18 **Very slow filtering**

Fine pores filter paper used for extremely difficult filtration conditions such as cold barium sulphate, metastannic acid, cuprous oxide.

### Réf. 32 **Low grease content**

Determination of grease content in dairy products (milk, cheese).

## Technical specifications

Grade	Weight g/m <sup>2</sup>	Thickness mm	Pore size µm	Filtration vel. sec*	Burst strength Kg/cm <sup>2</sup>
<b>11</b>	84	0,18	12-15	10	> 0.20
<b>12</b>	84	0,17	8-12	20	< 0.20
<b>13</b>	84	0,16	5-8	50	> 0.20
<b>14</b>	84	0,15	3-5	100	> 0.20
<b>15</b>	84	0,14	2-3	180	> 0.20
<b>18</b>	100	0,16	1-2	250	> 0.20
<b>32</b>	80	0,16	8-12	20	> 0.20

\*According to DIN 53137



# Quantitative filter papers (ashless)



## Ordering informations



Size  
mm plain disc Folded disc Pack.

### Grade 11

Size mm	plain disc	Folded disc	Pack.
42.5	0011A00001	-	100
45	0011A00002	-	100
55	0011A00003	-	100
70	0011A00004	0011P00021	100
90	0011A00005	0011P00022	100
110	0011A00006	0011P00023	100
125	0011A00007	0011P00024	100
135	0011A00008	-	100
150	0011A00009	0011P00025	100
185	0011A00010	0011P00026	100
210	0011A00011	0011P00027	100
240	0011A00012	0011P00028	100
270	0011A00018	0011P00030	100
320	0011A00014	0011P00029	100



Size  
mm plain disc Folded disc Pack.

### Grade 12

Size mm	plain disc	Folded disc	Pack.
42.5	0012A00001	-	100
45	0012A00002	-	100
55	0012A00003	-	100
70	0012A00004	0012P00021	100
90	0012A00005	0012P00022	100
110	0012A00006	0012P00023	100
125	0012A00007	0012P00024	100
135	0012A00008	-	100
150	0012A00009	0012P00025	100
185	0012A00010	0012P00026	100
210	0012A00011	0012P00027	100
240	0012A00012	0012P00028	100
270	0012A00018	0012P00030	100
320	0012A00014	0012P00029	100



Size  
mm plain disc Folded disc Pack.

### Grade 13

Size mm	plain disc	Folded disc	Pack.
42.5	0013A00001	-	100
45	0013A00002	-	100
55	0013A00003	-	100
70	0013A00004	0013P00021	100
90	0013A00005	0013P00022	100
110	0013A00006	0013P00023	100
125	0013A00007	0013P00024	100
135	0013A00008	-	100
150	0013A00009	0013P00025	100
185	0013A00010	0013P00026	100
210	0013A00011	0013P00027	100
240	0013A00012	0013P00028	100
270	0013A00018	0013P00030	100
320	0013A00014	0013P00029	100

### Grade 14

Size mm	plain disc	Folded disc	Pack.
42.5	0014A00001	-	100
45	0014A00002	-	100
55	0014A00003	-	100
70	0014A00004	0014P00021	100
90	0014A00005	0014P00022	100
110	0014A00006	0014P00023	100
125	0014A00007	0014P00024	100
135	0014A00008	-	100
150	0014A00009	0014P00025	100
185	0014A00010	0014P00026	100
210	0014A00011	0014P00027	100
240	0014A00012	0014P00028	100
270	0014A00018	0014P00030	100
320	0014A00014	0014P00029	10

### Grade 15

Size mm	plain disc	Folded disc	Pack.
42.5	0015A00001	-	100
45	0015A00002	-	100
55	0015A00003	-	100
70	0015A00004	0015P00021	100
90	0015A00005	0015P00022	100
110	0015A00006	0015P00023	100
125	0015A00007	0015P00024	100
135	0015A00008	-	100
150	0015A00009	0015P00025	100
185	0015A00010	0015P00026	100
210	0015A00011	0015P00027	100
240	0015A00012	0015P00028	100
270	0015A00018	0015P00030	100
320	0015A00014	0015P00029	100

### Grade 18

Size mm	plain disc	Folded disc	Pack.
42.5	0018A00001	-	100
45	0018A00002	-	100
55	0018A00003	-	100
70	0018A00004	0018P00021	100
90	0018A00005	0018P00022	100
110	0018A00006	0018P00023	100
125	0018A00007	0018P00024	100
135	0018A00008	-	100
150	0018A00009	0018P00025	100
185	0018A00010	0018P00026	100
210	0018A00011	0018P00027	100
240	0018A00012	0018P00028	100
270	0018A00018	0018P00030	100
320	0018A00014	0018P00029	100

### Grade 32

Size mm	plain disc	Folded disc	Pack.
42.5	0032A00001	-	100
45	0032A00002	-	100
55	0032A00003	-	100
70	0032A00004	0032P00021	100
90	0032A00005	0032P00022	100
110	0032A00006	0032P00023	100
125	0032A00007	0032P00024	100
135	0032A00008	-	100
150	0032A00009	0032P00025	100
185	0032A00010	0032P00026	100
210	0032A00011	0032P00027	100
240	0032A00012	0032P00028	100
270	0032A00018	0032P00030	100
320	0032A00014	0032P00029	100





# Special filter papers



## **Grade 902** Phase separating paper

Hydrophobic, with silicone impregnated paper used for the separation of aqueous solutions from organic solutions. The organic phase permeates the filter whereas the aqueous phase and solids components are being retained. Usable as disposable separating funnel. The density of the organic phase has no influence on the separating process.

## **Grade 916** Low nitrogen content paper

Slow filtering paper used for determination of nitrogen content in steel and iron rough, even glycemic according Hadedorn-Jensen.

## **Grade 918** Black filter paper

Filter paper stained with a sulfured colouring used for reveal the particles of bright colour.

**Application :**

- Fluorine or silicon detection.
- Mycelium in cultivated mushrooms.

## **Grade 602** Grey filter paper

Vellum grey filter paper. Weight : 65 g/m<sup>2</sup>. Medium filtering.

**Application :** All works in laboratories - Filtration of various products, pharmaceutical wrapping (pills, powders, dressing bandages and tablets) ...



## **Grade 909** Activated carbon filter paper

This paper contains approximatively 35% of high quality activated carbon

**Application :**

- Laboratory : clarification and brightening of duff and dark urines, polarimetric sugar determination
- Industry : filtration of galvanic baths and clarification of coloured liquids.

## **Grade 117** Methylene blue test paper

Paper used for methylene blue test.

# Special filter papers



## Technical specifications

Grade	Weight g/m <sup>2</sup>	Thickness mm	Pore size µm	Filt* speed sec*
902	85	0,17	-	25
916	90	0,16	-	110
918	85	0,17	-	45
909	160	0,35	-	-
117	100	0,20	4	75

\*According to DIN53137



## Ordering informations

Size mm	Plain disc	Pack.
<b>Grade 902</b>		
70	0902A00000	100
90	0902A00001	100
110	0902A00002	100
125	0902A00003	100
150	0902A00004	100
185	0902A00005	100
210	0902A00008	100
240	0902A00006	100
270	0902A00007	100

Size mm	Plain disc	Sheet.	Pack.
<b>Grade 916</b>			
70	0916A00000	-	100
90	0916A00001	-	100
110	0916A00002	-	100
125	0916A00003	-	100
150	0916A00005	-	100
185	0916A00006	-	100
100x100	-	0916F00002	100
120x120	-	0916F00003	100
200x200	-	0916F00004	100

Size mm	Plain disc	Pack.
<b>Grade 918</b>		
45	0918A00002	100
55	0918A00003	100
70	0918A00004	100
90	0918A00005	100
110	0918A00006	100
125	0918A00007	100
150	0918A00009	100
185	0918A00010	100
210	0918A00011	100
240	0918A00012	100

Size cm	Sheet	Folded sheet	Pack.
<b>Grade 602</b>			
42x52	0602F00021	0602M00021	500

Size mm	Plain disc	Pack.
<b>Grade 909</b>		
55	0909A00001	100
70	0909A00000	100
90	0909A00002	100
110	0909A00005	100
125	0909A00006	100
150	0909A00004	100
185	0909A00007	100
210	0909A00010	100
240	0909A00011	100
320	0909A00013	100
195/61	0909A00008	100
258/40	0909A00012	100
350/60	0909A00015	100
456/100	0909A00017	100

Size mm	Plain disc	Pack.
<b>Grade 117</b>		
90	0117A00005	100
110	0117A00006	100
125	0117A00007	100
150	0117A00009	100
185	0117A00010	100



# Special filter papers



## SUGAR INDUSTRY

### Grade 1591 Sugar cane filter paper

Creped surface filter paper 64 g/m<sup>2</sup> - Fast filtration

Application : Clarification of sugar cane juice after addition of lead acetate.

### Grade 120 Sugar beet filter paper

Smooth surface filter paper 64 g/m<sup>2</sup> - Fast filtration

Application : analysis of juice in saccharimetric chains

### Ordering informations



Size  
mm

Pleated in 4

Pack.

#### Grade 120

Size mm	Code	Pack.
210	0120C00021	250
215	0120C00022	250
225	0120C00023	250
250	0120C00025	250



Size  
mm

Plain disc



Folded disc

Pack.

#### Grade 1591

Size mm	Code	Code	Pack.
110	1591A00000	-	100
125	1591A00001	-	100
150	1591A00002	1591P00024	100
165	1591A00003	-	100
185	1591A00005	1591P00025	100
240	1591A00006	1591P00026	100

## BREWERY INDUSTRY

### Grade 1553 Embossed surface filter paper 70 g/m<sup>2</sup>

Application : Malt analysis in breweries (according to EBC).

### Ordering informations



Size  
mm

Plain disc

Pack.

#### Grade 1553

Size mm	Code	Pack.
125	1553A00003	100
150	1553A00004	100
185	1553A00005	100
240	1553A00006	100



Size  
mm

Folded disc

Pack.

#### Grade 1553

Size mm	Code	Pack.
190	1553P00005	100
240	1553P00006	100
270	1553P00009	100
320	1553P00007	100



# Special filter papers



## SOIL ANALYSIS

### Grade 43 Low magnesium content filter paper

Application : Determination of trace of oligo-elements

### Grade 116 Papier filtre qualitatif très lent

Application : Determination of minerals in soil extracts

### Grade 143/144 Papier filtre qualitatif exempt de phosphate

Application : Determination of K and P

## APPLICATIONS

- Mineral analysis in soil extracts

## Technical specifications

Grade	Weight g/m <sup>2</sup>	Thickness mm	Pore size µm	Filt. speed sec*	Burst strength Kg/cm <sup>2</sup>
43	80	0,17	5-8	63	> 0,9
116	80	0,17	2-3	150	< 0,6
143	85	0,16	5-8	63	> 0,9
144	85	0,16	3-5	120	> 0,9

\*According to DIN 53137

## Ordering informations

Size mm	 Plain disc	 Folded disc	Pack.
------------	--	---	-------

### Grade 43

90	0043A00005	-	100
110	0043A00006	-	100
125	0043A00007	0043P00024	100
150	0043A00009	0043P00025	100
185	0043A00010	0043P00026	100
240	0043A00012	0043P00027	100

Size mm	 Plain disc	 Folded disc	Pack.
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### Grade 143

55	0143A00003	-	100
70	0143A00004	-	100
90	0143A00005	-	100
110	0143A00006	0143P00023	100
125	0143A00007	0143P00024	100
150	0143A00009	0143P00025	100
185	0143A00010	0143P00026	100

Size mm	 Plain disc	 Folded disc	Pack.
------------	--	---	-------

### Grade 144

55	0144A00003	-	100
70	0144A00004	-	100
90	0144A00005	-	100
110	0144A00006	0144P00023	100
125	0144A00007	0144P00024	100
150	0144A00009	0144P00025	100
185	0144A00010	0144P00026	100

Size mm	 Plain disc	Pack.
------------	--	-------

### Grade 116

90	0116A00005	100
110	0116A00006	100
125	0116A00007	100
150	0116A00009	100
185	0116A00010	100





# Glass microfibres filters

These filters are made with 100% borosilicate micro-glass fibres and are binder free. Due to their very fine fibres, they are particularly suitable for micro-filtration. They can be used in various fields.

## APPLICATIONS

- Filtration of industrial water
- Fresh water algae
- Staining of dyed (papers)
- Sediments content in petroleum products
- Purification filtration
- Ligand binding test
- Solvents filtration
- Air pollution monitoring
- Membranes pre-filters
- Samples filtration for HPLC
- Protein filtration
- Radio-immuno tests
- Suspended solids in water (according to norm EN872)
- Liquid scintillation counting
- Suspended solids in smokes
- Drinking water filtration
- Cells collection
- Grease content in dairy products
- Critical analysis

## Properties

Excellent level of particles retention (pore size 0,7 à 2,7 µm).

Large load capacity.

Very high chemical purity (made with demineralized water).

Non-hygroscopic and biologically inert.

High permeability to air.

Chemical resistance to most solvents and reagents (except hydrofluoric acid).

Resist to temperature of about 500°C.



## Technical specifications

Grade	Weight g/m <sup>2</sup>	Thickness mm	Pore size µm	Filt. speed sec*	Burst strength kPa	Binder
259	52	0,26	1,6	60	20	Free
260	143	0,70	1	200	50	Free
261	52	0,26	1,2	100	20	Free
262	120	0,53	2,7	30	20	Free
263	75	0,45	0,7	310	50	Free
264	65	0,28	1,5	60	20	Free

\* filtration speed according to Herzberg

Grade	Weight g/m <sup>2</sup>	Thickness mm	Efficiency % (0.3 µm)	Pressure drop Pa (5.3 cm/sec.)	Binder
227	70	0,40	99.9	350	Resin
230	90	0,56	99.97	390	Resin

# Glass microfibres filters



## Ordering informations



Size mm	Plain disc	Pack.
<b>Grade 259</b>		
25	0259A00001	100
37	0259A00016	100
38	0259A00002	100
42.5	0259A00003	100
47	0259A00004	100
55	0259A00005	100
60	0259A00006	100
70	0259A00007	100
85	0259A00017	100
90	0259A00008	100
110	0259A00009	100
125	0259A00011	100
150	0259A00012	100
185	0259A00013	25
240	0259A00014	25



Size mm	Plain disc	Pack.
<b>Grade 260</b>		
25	0260A00001	50
37	0260A00002	50
38	-	50
42.5	0260A00003	50
47	0260A00004	50
55	0260A00005	50
60	0260A00006	50
70	0260A00007	50
85	-	50
90	0260A00008	50
110	0260A00009	25
125	0260A00011	25
150	0260A00012	25
185	0260A00016	25
240	0260A00022	25



Size mm	Plain disc	Pack.
<b>Grade 261</b>		
25	0261A00001	100
37	0261A00002	100
38	0261A00025	100
42.5	0261A00003	100
47	0261A00004	100
55	0261A00005	100
60	0261A00006	100
70	0261A00007	100
85	0261A00017	100
90	0261A00008	100
110	0261A00009	100
125	0261A00011	100
150	0261A00012	100
185	0261A00014	25
240	0261A00023	25

### Grade 262

25	0262A00001	50
37	0262A00002	50
38	-	50
42.5	0262A00003	50
47	0262A00004	50
55	0262A00005	50
60	0262A00006	50
70	0262A00007	50
85	-	50
90	0262A00008	50
110	0262A00009	25
125	0262A00011	25
150	0262A00012	25
185	0262A00015	25
240	0262A00013	25

### Grade 263

25	0263A00001	100
37	0263A00002	100
38	-	100
42.5	0263A00003	100
47	0263A00004	100
55	0263A00005	100
60	0263A00006	100
70	0263A00007	100
85	0263A00015	50
90	0263A00008	50
110	0263A00009	50
125	0263A00011	50
150	0263A00012	50
185	0263A00013	25
240	0263A00014	25

### Grade 264

25	0264A00001	100
37	0264A00002	100
38	0264A00016	100
42.5	0264A00003	100
47	0264A00004	100
55	0264A00005	100
60	0264A00006	100
70	0264A00007	100
85	0264A00015	100
90	0264A00008	100
110	0264A00009	100
125	0264A00011	100
150	0264A00012	100
185	0264A00013	25
240	0264A00014	25

### Grade 227

25	0227A00000	50
37	0227A00018	50
47	0227A00001	50
55	0227A00002	50
70	0227A00003	50
85	0227A00019	50
90	0227A00004	50
110	0227A00005	50
118	0227A00020	50
125	0227A00006	50
127	0227A00015	50
142	0227A00016	50
150	0227A00009	50
185	0227A00017	25

### Grade 230

25	0230A00000	50
37	0230A00018	50
47	0230A00001	50
55	0230A00002	50
70	0230A00003	50
85	0230A00015	50
90	0230A00004	50
110	0230A00006	50
118	0230A00020	50
125	0230A00006	50
127	0230A00008	50
142	0230A00011	50
150	0230A00009	50
185	0230A00013	25



Width mm	Roll	Pack.
<b>Grade 227</b>		
50	0227R00021	100 m
35	0227R00022	30 m



# Quartz microfibres filter

## Grade 293

### Properties

Binder free, without glass fibres.  
 Made with 100% micro-quartz fibres.  
 Operating temperature resistance : 900 °C.  
 Low heavy metal content

### APPLICATIONS

- Emission control of chimney smokes, exhaust gases and aerosols
- Analysis of acidic gases (except HF)
- Control of suspended lead particles in air

### Technical specifications

Grade	Weight g/m <sup>2</sup>	Penetration DOP%(0,3 µm)	Efficiency of retention %	Air resist. 40 cm/s	Pressure drop Pa à 3 cm/s
293	85	<0,002	99,999	20	60

### Metal content (ppm)

Al	Ba	Ca	Cd	Co	Cr	Cu	Fe	Mg	Mn	Na	Ni	Pb	Sr	Ti	V	Zn
300	10	250	0,002	<0,5	2	2	50	25	2	100	2	<1	3	<1	<5	6



### Ordering informations

Size  
mm



Plain disc

Pack.

### Réf. 293

25	0293A00001	100
37	0293A00002	100
47	0293A00004	100
55	0293A00014	100
60	0293A00018	100
70	0293A00015	100
85	0293A00005	50
90	0293A00006	50
100	0293A00019	50
110	0293A00007	50
118	0293A00008	50
125	0293A00009	50
127	0293A00017	50
130	0293A00013	50
142	0293A00012	50
150	0293A00010	50
293	0293A00020	25
203x254	0293F00023	25





# Extraction thimbles



## Grade 7 Cellulose fibres

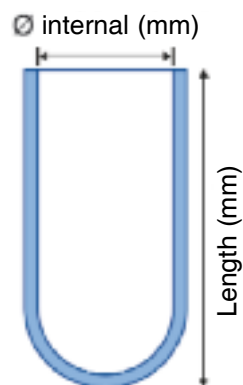
They are made with 100% high pure cotton linters fibres, they are neutral and fat free and offer high mechanical strength and excellent retention capacity. Suitable for all extractors systems.

## Grade 8 Micro-glass fibres

Extraction thimbles made with 100% micro-glass fibres, without binder  
Maximum temperature resistance : 500 °C

## Grade 6 Micro-quartz fibres

Extraction thimbles made with 100% micro-quartz fibres, without binder  
Maximum temperature resistance : 900 °C



## APPLICATIONS

- Extraction of sulfur in gaseous masses
- Détermination by extraction of the content of free lipids in food
- Determination of dust and tar in industrial air and gases
- Lacquer and binder analysis in paint colours.
- Control of emission smokes in industrial chimneys
- Gravimetric analysis of dust in gases



## Ordering informations



Size mm	Thimbles	Pack.
<b>Grade 7</b>		
19x90	0007N00022	25
22x80	0007N00024	25
25x80	0007N00025	25
25x100	0007N00121	25
26x60	0007N00026	25
27x80	0007N00027	25
28x80	0007N00028	25
28x100	0007N00029	25
30x80	0007N00031	25
30x100	0007N00030	25
33x80	0007N00040	25
33x100	0007N00041	25
33x118	0007N00123	25
34x130	0007N00033	25
37x130	0007N00034	25
41x123	0007N00035	25
41x150	0007N00042	25
43x123	0007N00124	25



Size mm	Thimbles	Pack.
<b>Grade 8</b>		
19x90	0008N00022	25
22x80	0008N00024	25
25x80	0008N00025	25
25x100	0008N00026	25
26x60	0008N00027	25
30x80	0008N00028	25
30x100	0008N00030	25
33x80	0008N00031	25
33x94	0008N00032	25
35x150	0008N00034	25
43x123	0008N00035	25

Size mm	Thimbles	Pack.
<b>Grade 6</b>		
22x65	0006N00023	25
25x80	0006N00025	25
25x100	0006N00026	25
26x60	0006N00027	25
30x80	0006N00029	25
30x100	0006N00031	25
35x150	0006N00033	25
43x123	0006N00035	25





# Membranes filters

## MCE - Mixed Celluloses Esters

The mixed cellulose esters membranes are composed of cellulose acetate and cellulose nitrate. It is one of the most widely used membranes in analytical and research applications.

They are naturally hydrophilic, biologically inert and offer a good thermal stability.

MCE membrane is characterized by a smoother and more uniform surface than pure nitrocellulose membrane which facilitates particles detection, and also a high retention level.

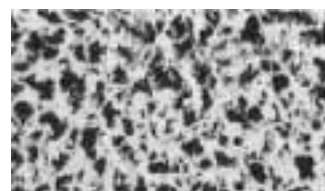
Gridded membranes are used in many microbiological techniques include colony counting after incubation.

### APPLICATIONS

- Water filtration
- Microbiological analysis
- Gravimetical and qualitative particles analysis
- Protein determination
- Identification of nucleic acids
- Sterilization of samples
- Prefiltration and clarification of samples

## Technical specifications

Pore Size (µm)	Bubble P. (Bar)	Water Flow (mL/min/cm <sup>2</sup> )	Air Flow (L/min/cm <sup>2</sup> )
0.2	3.62	19	2
0.45	2.23	60	5
0.65	1.18	135	9
0.8	0.95	180	15
1.2	0.77	270	20
3	0.69	320	28
5	0.56	560	30
8	0.40	600	63



### Ordering informations



white, plain, no sterile



µm	13 mm	25 mm	47 mm	Pack.
0.22	0422A00021	0422A00022	0422A00023	100
0.45	0424A00021	0424A00022	0424A00023	100
0.65	----	0425A00022	0425A00023	100
0.8	----	0426A00022	0426A00023	100
1.2	----	0427A00022	0427A00023	100
3.0	----	0428A00022	0428A00023	100
5.0	----	0429A00022	0429A00023	100
8.0	----	0430A00022	0430A00023	100



sterile, gridded , individually packed

µm	Colour	Grid	47 mm	Pack.
0.22	blanche	noir	0421A00023	100
0.45	blanche	noir	0410A00023	100
0.45	noire	blanc	0415A00023	100
0.45	verte	vert	0440A00023	100

# Membranes filters

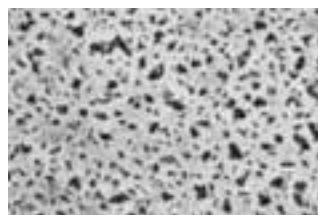


## AC - Cellulose Acetate

The CA membranes filters are composed of pure cellulose acetate modified to offer researchers the lowest binding filters available. Due to the extremely low binding characteristics, these hydrophilic membranes provide high throughputs and reduce filter changes when filtering proteinaceous solutions. The CA membranes present a strength and dimension stability (130 psi) and resist to 135 °C. Their uniform pore size structure allows consistent flow rates.

### Technical specifications

Pore Size (µm)	Bubble P. (Bar)	Water Flow (mL/min/cm <sup>2</sup> )	Air Flow (L/min/cm <sup>2</sup> )
0.22	4.0	18.5	---
0.45	3.1	40	25



#### Ordering informations



white, plain, no sterile

µm	25 mm	47 mm	Pack.
0.22	0452A00022	0452A00023	100
0.45	0454A00022	0454A00023	100

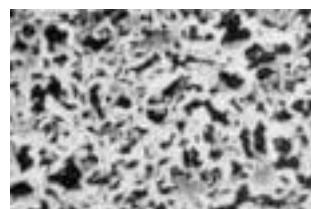
## NYL - Polyamide

Nylon membranes filter is a supported, naturally hydrophilic membrane designed to wet out evenly and retain its superior strength during use in general filtration or medical assays.

Nylon membranes filters are flexible, durable and tear resistant and can be autoclaved at 135 °C. Good chemical compatibility with aqueous and alcoholic solutions and solvents.

### Technical specifications

Pore Size (µm)	Bubble P. (Bar)	Water Flow (mL/min/cm <sup>2</sup> )	Air Flow (L/min/cm <sup>2</sup> )
0.22	3.4	9.9	1.7
0.45	2.0	26.9	3.2



#### Ordering informations



white, plain, no sterile

µm	13 mm	25 mm	47 mm	Pack.
0.22	0462A00021	0462A00022	0462A00023	100
0.45	0464A00021	0464A00022	0464A00023	100

#### APPLICATIONS

- Filtration sterile of aqueous solutions (nutrient media, sera, buffers)
- Clarification and sterilizing filtration of biological fluids
- Sterilizing filtration of proteins and enzymes
- Receptor binding studies

#### APPLICATIONS

- Removal and filtration of particles in water
- Sterilizing filtration of aqueous solutions and organic solvents
- Filtration of HPLC samples
- Bacterial and particles removal (blood glucose, serum cholesterol, drugs)



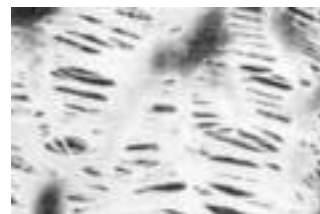
# Membranes filters

## PTFE - Polytetra-fluorethylene

PTFE membrane is an hydrophobic filter made of polytetra-fluorethylene laminated with PP layer. Excellent chemical resistance (pH 1-14), they are used also for solvents and acids. Due to their hydrophobic characteristics, they must be pre-wetted with ethanol or methanol before the filtration of aqueous solutions.

### Technical specifications

Pore Size ( $\mu\text{m}$ )	Thickness (mm)	Bubble P. (MPa)	Air Permeab. ( $\text{m}^3/\text{m}^2/24\text{h}$ )
0.22	0.16	0.13-0.14	300-500
0.45	0.16	0.08-0.13	500-800



### Ordering informations

 white, plain, no sterile

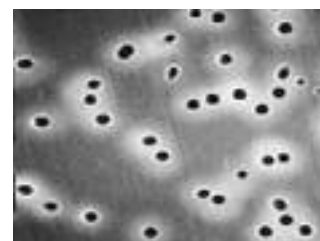
$\mu\text{m}$	13 mm	25 mm	47 mm	Pack.
0.22	----	0402A00022	0402A00023	100
0.45	0404A00021	0404A00022	0404A00023	100
5.0	----	0409A00022	0409A00023	100

## PC - Polycarbonate

Track-etched PC membranes are manufactured from high-quality polycarbonate film. They have a smooth flat surface and exhibit very low extractables levels. Due to their sharply defined pore sizes, high flow rates and excellent chemical and thermal resistance, they are suitable for the detection of particles in many corrosive fluids.

### Technical specifications

Pore Size ( $\mu\text{m}$ )	Thickness (mm)	Water Flow ( $\text{mL}/\text{min}/\text{cm}^2$ )	Air Flow ( $\text{L}/\text{min}/\text{cm}^2$ )
0.22	0.25	10	3
0.45	0.25	33	7.5



### Ordering informations

 white, plain, no sterile

$\mu\text{m}$	25 mm	47 mm	Pack.
0.22	0482A00022	0482A00023	100
0.45	0484A00022	0484A00023	100

### APPLICATIONS

- Sterilizing filtration of gas samples
- Clarification and filtration of pure solvents
- Aerosol samplings
- Filtration of strong acids and chemical aggressive solutions
- Venting applications (hospital air conditioning, tank fermentation in microelectronic)

### APPLICATIONS

- Fluids clarification
- Environmental analysis (air, waters)
- Cytology, parasitology, bioassays, epifluorescence microscopy
- Analysis of biological cells and particles

# Membranes filters



## PES - Polyethersulfone

The highly asymmetrical pore structure of our PES flat membrane offers an excellent loading capacity and high flow rate. This membrane is hydrophilic and made with polyethersulfone polymer. It is designed to remove particulates during general filtration and its low protein and drug binding characteristics make it ideally suited for use in life science applications.

## Technical specifications

Pore Size (µm)	Bubble P. (Bar)	Water Flow (mL/min/cm <sup>2</sup> )	Air Flow (L/min/cm <sup>2</sup> )
0.22	3.4	30	16
0.45	2.7	21	16



## Ordering informations



white, plain, no sterile

µm	25 mm	47 mm	Pack.
0.22	0442A00022	0442A00023	100
0.45	0444A00022	0444A00023	100

## APPLICATIONS

- Filtration of pharmaceutical and biological solutions, etc...
- Filtration in food industry (drinkable water, beverages, process waters)
- Filtration of chemical reagent, high temperature liquids
- Filtration of drugs





# Syringe filters

## MCE - Mixed Celluloses Esters

### APPLICATIONS

- Filtration of tissue culture medias and additives
- Clarification of biological fluids
- Filtration of proteins, enzymes and other aqueous solutions

### Properties

- ▶ Hydrophilic membrane
- ▶ Good mechanical strength and strong absorption
- ▶ Water flow : - 22 ml/min/cm<sup>2</sup> (0.45μm)      Bubble point : - 230 kPa (0.45μm)  
  - 8.5 ml/min/cm<sup>2</sup> (0.2μm)   - 350 kPa (0.2μm)
- ▶ Resistance against most of organic solvents and most of alkaline liquids
- ▶ Chemical compatibility: pH 4-8

### Ordering informations



**no sterile**



**sterile**

Diam.	0.2	0.45	Pack.
<b>13</b>	6002N13002	6004N13002	100
<b>13</b>	6002N13003	6004N13003	1000
<b>25</b>	6002N25001	6004N25001	50
<b>25</b>	6002N25003	6004N25003	1000
<b>33</b>	6002N33001	6004N33001	50
<b>33</b>	6002N33003	6004N33003	1000

Diam.	0.2	0.45	Pack.
<b>13</b>	6002S13001	6004S13001	50
<b>25</b>	6002S25001	6004S25001	50
<b>33</b>	6002S33001	6004S33001	50

## NYL - Polyamide

### APPLICATIONS

- Filtration and clarification of solvents
- Filtration of aqueous and organic solutions in HPLC
- Sterilization and clarification of biological fluids, buffer solutions and tissue culture medias

### Properties

- ▶ Hydrophilic membrane
- ▶ Good mechanical strength and strong absorption
- ▶ Water flow : - 46 ml/min/cm<sup>2</sup> (0.45μm)      Bubble point: - 220 kPa (0.45μm)  
  - 23 ml/min/cm<sup>2</sup> (0.2μm)   - 340 kPa (0.2μm)
- ▶ Resistance against most of organic solvents and most of alkaline liquids
- ▶ Chemical compatibility: pH 3-14

### Ordering informations



**no sterile**



**sterile**

Diam.	0.2	0.45	Pack.
<b>13</b>	6012N13002	6014N13002	100
<b>13</b>	6012N13003	6014N13003	1000
<b>25</b>	6012N25001	6014N25001	50
<b>25</b>	6012N25003	6014N25003	1000
<b>33</b>	6012N33001	6014N33001	50
<b>33</b>	6012N33003	6014N33003	1000

Diam.	0.2	0.45	Pack.
<b>13</b>	6012S13001	6014S13001	50
<b>25</b>	6012S25001	6014S25001	50
<b>33</b>	6012S33001	6014S33001	50



# Syringe filters

## PTFE - Polytetra-fluorethylene

### Properties

- Hydrophobic membrane
- High thermal and chemical resistance
- Flow Isopropanol: - 30/43 ml/min/cm<sup>2</sup> (0.45µm)      Bubble point : - 0.8 bars (0.45µm)  
                                 - 17/23 ml/min/cm<sup>2</sup> (0.2µm)                                  - 1.2 bars (0.2µm)
- Resistance against most of organic solvents and aggressive liquids
- Chemical compatibility: pH 1-14

### Ordering informations



**no sterile**

Diam.	0.2	0.45	Pack.
13	6022N13002	6024N13002	100
13	6022N13003	6024N13003	1000
25	6022N25001	6024N25001	50
25	6022N25003	6024N25003	1000
33	6022N33001	6024N33001	50
33	6022N33003	6024N33003	1000



**sterile**

Diam.	0.2	0.45	Pack.
13	6022S13001	6024S13001	50
25	6022S25001	6024S25001	50
33	6022S33001	6024S33001	50

### APPLICATIONS

- Filtration of most of organic solvents and chemical solutions extremely corrosive
- Preparation of HPLC or GC samples
- Filtration of air and gases

## PVDF - Polyvinylidene

### Properties

- Hydrophobic membrane
- High thermal and chemical resistance
- Flow Isopropanol: - 17/23 ml/min/cm<sup>2</sup> (0.45µm)      Bubble point: - 0.8 bars (0.45µm)  
                                 - 9/12 ml/min/cm<sup>2</sup> (0.2µm)                                  - 1.2 bars (0.2µm)
- Resistance against most of organic solvents and aggressive liquids
- Chemical compatibility: pH 1-14

### Ordering informations



**no sterile**

Diam.	0.2	0.45	Pack.
13	6032N13002	6034N13002	100
13	6032N13003	6034N13003	1000
25	6032N25001	6034N25001	50
25	6032N25003	6034N25003	1000
33	6032N33001	6034N33001	50
33	6032N33003	6034N33003	1000



**sterile**

Diam.	0.2	0.45	Pack.
13	6032S13001	6034S13001	50
25	6032S25001	6034S25001	50
33	6032S33001	6034S33001	50

### APPLICATIONS

- Filtration of most of organic solvents and chemical solutions extremely corrosive
- Preparation of HPLC or GC samples
- Filtration of air and gases



# Syringe filters

## PES - Polyethersulfone

### APPLICATIONS

- Filtration of alkaline liquids and organic solvents
- Preparation of protein-based samples
- High speed filtration of tissue culture medias, and others aqueous solutions

### Properties

- Hydrophilic membrane
  - High thermal and chemical resistance
  - Water flow : - 36 m<sup>3</sup>/m<sup>2</sup>/hr/bar (0.45µm)  
- 21 m<sup>3</sup>/m<sup>2</sup>/hr/bar (0.2µm)
  - Resistance against most of hydrophilic fluids
  - Chemical compatibility: pH 4-8
- Bubble point: - 300 kPa (0.45µm)  
- 430 kPa (0.2µm)

### Ordering informations



no sterile



sterile

Diam.	0.2	0.45	Pack.
13	6042N13002	6044N13002	100
13	6042N13003	6044N13003	1000
25	6042N25001	6044N25001	50
25	6042N25003	6044N25003	1000
33	6042N33001	6044N33001	50
33	6042N33003	6044N33003	1000

Diam.	0.2	0.45	Pack.
13	6042S13001	6044S13001	50
25	6042S25001	6044S25001	50
33	6042S33001	6044S33001	50

## CA - Cellulose Acetate

### APPLICATIONS

- Removal of cells in liquids
- Filtration of samples of aqueous solutions in some of organic solvents
- Measure of diffusion light
- Filtration of spring waters cause free of nitrates

### Properties

- Hydrophilic membrane
  - Good mechanical resistance and weak absorption
  - Water flow : - 46 ml/min/cm<sup>2</sup> (0.45µm)  
- 23 ml/min/cm<sup>2</sup> (0.2µm)
  - Resistance against most of organic solutions
  - Chemical compatibility: pH 3-7
- Bubble point: - 220 kPa (0.45µm)  
- 340 kPa (0.2µm)

### Ordering informations



no sterile



sterile

Diam.	0.2	0.45	Cond.
13	6062N13002	6064N13002	100
13	6062N13003	6064N13003	1000
25	6062N25001	6064N25001	50
25	6062N25003	6064N25003	1000
33	6062N33001	6064N33001	50
33	6062N33003	6064N33003	1000

Diam.	0.2	0.45	Cond.
13	6062S13001	6064S13001	50
25	6062S25001	6064S25001	50
33	6062S33001	6064S33001	50



# Syringe filters



## PP - Polypropylene

### Properties

- Hydrophilic membrane
- Good chemical compatibility
- Water flow : - 36 m<sup>3</sup>/m<sup>2</sup>/hr/bar (0.45µm)  
- 21 m<sup>3</sup>/m<sup>2</sup>/hr/bar (0.2µm)
- Resistance to most of organic solvents
- Chemical compatibility: pH 1-14

Bubble point: - 300 kPa (0.45µm)  
- 430 kPa (0.2µm)

### Ordering informations



**no sterile**



**sterile**

Diam.	0.2	0.45	Pack.
13	6072N13002	6074N13002	100
13	6072N13003	6074N13003	1000
25	6072N25001	6074N25001	50
25	6072N25003	6074N25003	1000
33	6072N33001	6074N33001	50
33	6072N33003	6074N33003	1000

Diam.	0.2	0.45	Pack.
13	6072S13001	6074S13001	50
25	6072S25001	6074S25001	50
33	6072S33001	6074S33001	50

### APPLICATIONS

- HPLC samples containing weak content of solids
- Cells culture and samples filtration
- Sterile filtration of samples of small volume
- Refractometry
- UV samples / Vis

## GF - Glass Fibres

### Properties

- Hydrophilic membrane
- Excellent chemical compatibility
- Resistance to organic solvents and strong acids
- Chemical compatibility: pH 1-14

### Ordering informations



**no sterile**

Diam.	1-2 µm	Pack.
13	6510N00020	100
13	6510N01000	1000
25	6510N00021	50
25	6510N01001	1000
33	6510N00022	50
33	6510N01002	1000



### APPLICATIONS

- Pre-filter for viscous serums and samples of culture medias before analysis
- Filtration of separation of cells medias before sterilization
- Clarification of samples containing charged particles



# Filtration unit

## PTFE - Polytetra-fluorethylene

### APPLICATIONS

- Sterilization of gases and events of sterile containers
- Clarification and sterilization of organic solutions
- Protection of haemodialysis against blood and humidity

### Properties

- Hydrophobic membrane
- High thermal and chemical resistance
- Flow Isopropanol: - 30/43 ml/min/cm<sup>2</sup> (0.45µm)          Bubble point : - 0.8 bars (0.45µm)  
                                 - 17/23 ml/min/cm<sup>2</sup> (0.2µm)                                  - 1.2 bars (0.2µm)
- Resistance against most of organic solvents and aggressive liquids
- Chemical compatibility: pH 1-14



### Ordering informations



sterile

Size	0.2	0.45	Pack.
47	6022S47004	6024S47004	25

## Technical specifications



Size	13	25	33
	(mm)	(mm)	(mm)
<b>Housing</b>	PP		
<b>Filtration area</b>	1.3 cm <sup>2</sup>	4.6 cm <sup>2</sup>	8.5 cm <sup>2</sup>
<b>Sample volume</b>	< 30 µL	< 100 µL	< 200 µL
<b>Holdup volume</b>	< 10 µL	< 25 µL	< 35 µL
<b>Max. pressure</b>	75 psi		
<b>Max. temperature</b>	50 °C		
<b>Inlet</b>	female luer lock		
<b>Outlet</b>	male luer slip		

# Chemical compatibility table



	Nylon	PTFE	MCE	GF	PES	CA	PVDF
<b>ACIDS</b>							
Acetic, Glacial	L	R	N	R	R	N	R
Acetic, 26%	R	R	N	R	R	R	R
Hydrochloric, Concentrated	N	R	N	R	R	N	R
Hydrochloric, 25%	N	R	N	R	R	N	R
Sulphuric, Concentrated	N	R	N	R	N	N	N
Sulphuric, 25%	N	R	R	R	R	R	R
Nitric, Concentrated	N	R	N	L	N	N	R
Nitric, 25%	N	R	R	L	R	N	R
Phosphoric, 25%	N	R	T	T	T	R	T
Formic, 25%	N	R	T	R	T	L	T
Trichloroacetic, 25%	N	R	T	T	T	R	T
<b>ALCOHOLS</b>							
Methanol, 98%	R	R	N	R	R	R	R
Ethanol, 98%	R	R	L	R	R	R	R
Ethanol, 70%	L	R	R	R	R	R	R
Isopropanol	R	R	L	R	R	R	R
n-Propanol	R	R	L	R	R	R	R
Amyl Alcohol, Butanol	R	R	N	R	R	R	R
Benzyl Alcohol	R	R	R	T	R	L	R
Ethylene Glycol	R	R	L	R	R	R	R
Propylene Glycol	R	R	L	R	R	L	R
Glycerol	R	R	R	R	R	R	R
<b>BASES</b>							
Ammonium, Hydroxide, 25%	R	R	N	R	R	R	L
Sodium, Hydroxide, 25%	R	R	N	R	R	T	R
<b>HYDROCARBONS</b>							
Hexane, Xylene	R	R	R	R	N	R	L
Toluene, Benzene	R	R	R	R	N	T	R
Kerosene, Gasoline	R	R	R	T	L	R	L
Tetralin, Decalin	T	R	N	T	T	T	R
Hexane, Xylene	R	R	R	R	X	R	L
<b>HALOGENATED HYDROCARBONS</b>							
Methylene Chloride	L	R	N	R	N	N	R
Chloroform	R	R	R	R	N	N	R

	Nylon	PTFE	MCE	GF	PES	CA	PVDF
<b>ACIDS</b>							
Trichloroethylene	R	R	R	R	N	R	R
Monochlorobenzene	R	R	N	R	L	R	R
Freon	R	R	R	R	L	R	R
Carbon Tetrachloride	R	R	R	R	N	L	R
<b>KETONES</b>							
Acetone	R	R	N	R	N	N	N
Cyclohexanone	R	R	N	R	N	N	N
Methyl Ethyl Ketone	R	R	N	R	N	L	L
Isopropylacetone	R	R	N	R	N	R	N
Methyl Isobutyl Ketone	T	R	N	R	N	T	L
<b>OXIDES - ETHERS</b>							
Ethyl Ether	R	R	L	R	R	R	R
Dioxane	R	R	N	R	N	N	L
Tetrahydrofuran	R	R	N	R	N	N	L
Triethanolamine	R	R	L	R	T	R	T
Dimethylsulfoxide (DMSO)	R	R	N	R	N	N	N
Isopropyl Ether	T	R	N	R	R	R	R
<b>SOLVENTS WITH NITROGEN</b>							
Dimethyl Formamide	L	R	N	R	N	N	N
Diethylacetamide	R	R	N	R	T	N	T
Triethanolamine	R	R	L	R	T	R	T
Aniline	T	R	N	R	T	N	T
Pyridine	R	R	N	R	X	N	R
Acetonitrile	R	R	N	R	L	N	L
<b>MISC</b>							
Phenol, Aqueous, 10%	T	R	R	R	N	N	L
Formaldehyde Solution, 30%	R	R	R	R	R	R	R
Hydrogene Peroxide, 30%	R	R	R	R	T	R	T
Silicone Oil & Mineral Oil	T	R	R	R	R	R	R

R = Recommended, N = Not recommended, T = Test, L = Limited resistance (testing before use is recommended).  
 PTFE = Polytetrafluoroethylene, MCE = Mixed Cellulose Ester, GF = Glass Fiber, PES = Polyethersulfone, CA = Cellulose acetate, PVDF = Polyvinylidene Fluoride



# Glass solvent filter

## Properties

### APPLICATIONS

- Filtration of aqueous and organic solvents
- Purification and outgas of solutions and HPLC solvents, etc ...



9501N00021

This product is made of high-quality extra hard glass and is suitable for removal of particles in solvents or for purification of solutions in analytical works.

#### Specification:

- funnel of 300 ml
- filter support in Pyrex glass fritted (pore size 10µm)
- flask of 1000 ml
- aluminium clamp
- suitable membranes size 47 or 50 mm

### Ordering informations

type	Grade
grinding	9500N00021
stopper	9501N00021



9500N00021

# Vacuum pump

It is used in addition with the glass solvent filter holder or with the multiple vacuum filtration systems



Parameters	Datas
material	aluminium
motor power	75 w
max. pressure	>0.07 Mpa
flow rate	12 L/Min.
working temp.	7-40 °C

Parameters	Datas
pump head	nylon
inlet/outlet	6 mm
weight	4 kgs
size	23x12x15 cm
noise level	>50 db

### Ordering informations

Grade
9400N00021

# Multiple vacuum filtration system



## Properties

This filtration system is completely made in SS 316L . It is particularly designed for filtration of several samples at the same time.

2 sorts: 3 or 6 branches and it is composed of:

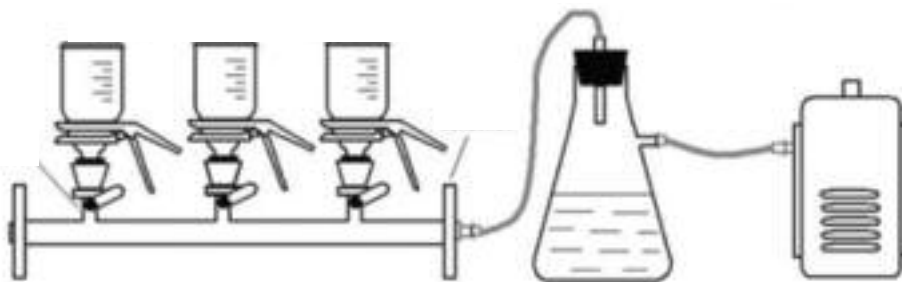
- funnel of 300 ml
- filter holder in SS316L
- aluminium clamp
- valve in PTFE
- suitable membranes size 47 or 50 mm

## Ordering informations

type	Grade
3 branches	9700N00001
6 branches	9701N00001

## APPLICATIONS

- Continuous filtration
- Microbiological fluids removal and particles analysis
- Filtration of biological solutions ( proteins)





# pH indicator papers

## Grade 911

### UNIVERSAL pH INDICATOR PAPERS

- Rapid and precise readings
- Filter paper soaked with one or several coloured indicators of pH
- Economic range of pH 0 to 14



#### How to use :

Dip the indicator paper into the liquid to be tested for a few seconds and remove it from the test solution and compare the resultant colours with the colour scale printed on the cover.

#### Scale value

pH 1 -14	1	2	3	4	5	6	7	8	9	10	12	14
pH 0 -10	0	1	2	3	4	5	6	7	8	9	10	
pH 1 -11	1	2	3	4	5	6	7	8	9	10	11	
pH 0.5 -5	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5		
pH 4 -7	4	4.5	5	5.5	6	6.5	7					
pH 5 -9	5	5.5	6	6.5	7	7.5	8	8.5	9			
pH 6.5 -10	6.5	7	7.5	8	8.5	9	9.5	10				
pH 9 -13	9	9.5	10	10.5	11	11.5	12	12.5	13			
pH 3.8 -5.8	3.8	4.1	4.3	4.5	4.7	4.9	5.2	5.5	5.8			
pH 4 -7	4	4.3	4.6	4.9	5.2	5.5	5.8	6.1	6.4	6.7	7	
pH 6.4 -8	6.4	6.7	7	7.2	7.4	7.7	8					
pH 7.2 - 9.7	7.2	7.5	8	8.5	8.8	9.2	9.7					
pH 8 -10	8	8.2	8.4	8.7	9	9.2	9.6	10				
pH 12 -14	12	12.5	13	13.5	14							

#### Ordering informations

**A**



Roll of 5 m

**B**



Refill pack x 3

**C**



Box of 200

**D**



Booklet of 100

**E**



Tube of 10x20

#### Grade 911

1 - 14	0911R00035	0911Z00035	0911S00035	0911L00035	0911S00535
0 - 10	0911R00034	0911Z00034	0911S00034	0911L00034	0911S00534
1 - 11	0911R00024	0911Z00024	0911S00024	0911L00024	0911S00524
0.5 - 5	0911R00030	0911Z00030	0911S00030	0911L00030	0911S00530
4 - 7	0911R00025	0911Z00025	0911S00025	0911L00025	0911S00525
5 - 9	0911R00031	0911Z00031	0911S00031	0911L00031	0911S00531
6.5 - 10	0911R00032	0911Z00032	0911S00032	0911L00032	0911S00532
9 - 13	0911R00033	0911Z00033	0911S00033	0911L00033	0911S00533
3.8 - 5.8	0911R00037	0911Z00037	0911S00037	0911L00037	0911S00537
4 - 7	0911R00038	0911Z00038	0911S00038	0911L00038	0911S00538
6.4 - 8	0911R00040	0911Z00040	0911S00040	0911L00040	0911S00540
8 - 10	0911R00041	0911Z00041	0911S00041	0911L00041	0911S00541
12 - 14	0911R00036	0911Z00036	0911S00036	0911L00036	0911S00536

minimum of order: 20 units

# Reagent papers



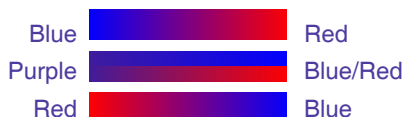
## Grade 912

### UNIVERSEL TEST PAPERS

#### Litmus paper :

General control of acid or alkaline reactions

- **Blue litmus**
- **Neutral litmus**
- **Red litmus**



#### Phenolphthalein paper :

Neutralization control



#### Congo red paper :



### TEST PAPER FOR QUALITATIVE DETECTION

#### Lead acetate paper :

Detection of sulphhydic acid (H<sub>2</sub>S)



#### Potassium iodid starched paper :

Detection of nitrites in free chlorine



#### Cobalt chloride paper :

Detection of moisture

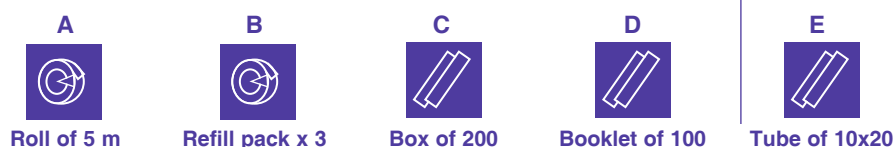


#### APPLICATIONS

- Rapid determination of pH value in industrial applications
- General analysis in school
- Formation



#### Ordering informations



#### Grade 912

Blue litmus	0912R00021	0912Z00021	0912S00021	0912L00021	0912S00521
Neutral litmus	0912R00022	0912Z00022	0912S00022	0912L00022	0912S00522
Red litmus	0912R00023	0912Z00022	0912S00023	0912L00023	0912S00523
Phenolphthalein paper	0912R00026	0912Z00026	0912S00026	0912L00026	0912S00526
Red Congo paper	0912R00027	0912Z00027	0912S00027	0912L00027	0912S00527
Lead acetate paper	0912R00024	0912Z00024	0912S00024	0912L00024	0912S00524
Potassium iodid starched pap.	0912R00025	0912Z00025	0912S00025	0912L00025	0912S00525
Cobalt chloride paper	0912R00031	0912Z00032	0912S00032	---	0912S00532

minimum of order: 20 units



# pH indicator

## Grade 1010 pH TEST STRIPS

### Properties

#### APPLICATIONS

- Schools / universities
- Aquaculture
- Fire brigades / police
- Surface treatment industry
- Soil analysis

- No bleeding of dyes because they are fixed to the cellulose fibres. This protect the solution against contamination and allows further measurements.
- Reliable pH measurements even in weakly buffered solutions. The test strip can leave in the solution until the final reaction colour is obtained.
- High easily pH readings because the different test colours are enough separated on the strip.
- The stiffness of the plastic pH strip enables a best handling.
- Transparency plastic box with:  
100 strips 6 x 80 mm + colour chart



### Ordering informations

Grade	Scale value														pH		
1010F00021	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	pH 0 -14	
1010F00023	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5							pH 0.5 -5
1010F00024	5.5	6	6.5	7	7.5	8	8.5	9							pH 5.5 -9		
1010F00025	9.5	10	10.5	11	11.5	12	12.5	13							pH 9.5 -13		

## VISUAL COLOR TEST LIQUID pH INDICATOR

### Properties

#### APPLICATIONS

- Laboratory, industry
- hydroponic farmings, etc...

- reliable (replace the pH meters)
- rapide and precise readings
- easy to use
- economical (200 tests)

### Ordering informations



Grade	pH	Scale value								Pack.
0911H00022	4.0 - 8.5	4.0	5.0	5.5	6.0	6.5	7.0	8.0	8.5	30 ml



# Special products



## BLOTTING PAPER BLOCK

### Grade 900

Pad of blotting paper sheets 73 g/m<sup>2</sup>

#### Ordering informations

Size mm	Sheets	Pack.
------------	--------	-------

### Grade 900

37x100	0900L00021	50
--------	------------	----



#### APPLICATIONS

- Absorbing excess liquids in microscopic preparations or in any drying of samples

## WEIGHING BOATS

### Grade 901

They are made in parchment paper with low nitrogen content

#### Ordering informations

Size mm	Containers	Pack.
------------	------------	-------

### Grade 901

58x10x10	0901N00021	100
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#### APPLICATIONS

- Weighing of substances :
  - viscous products
  - pasty products
  - powders, etc...

## WEIGHING PAPERS

### Grade 908

Smooth paper 45 g/m<sup>2</sup> with satin appearance, wetstrength resistance

### Grade 919

Smooth paper 25 g/m<sup>2</sup> - Easily crushable

#### Ordering informations

Size mm	Sheets	Pack.
------------	--------	-------

### Grade 908 / Grade 919

100x100	0908F00002	250
95x110	0908F00003	250
150x150	0908F00004	250
100x100	0919F00002	1000



#### APPLICATIONS

- Weighing of all types of substances (beet mash,, powders, liquids, etc...)



# Special products

## BENCH PROTECTIVE PAPERS

### APPLICATIONS

- Protection of laboratory benches against acids, toxic, corrosive and radioactive fluids, impacts.)
- Recovery of valuable material (precious metals)
- Protection and laying out of animals cages, etc...

### Grade 604

White absorbent paper 100 g/m<sup>2</sup> with one-side PE coating 25 g/m<sup>2</sup>  
Absorption capacity : 170 g/m<sup>2</sup>

### Grade 606

White ultra-absorbent paper 190 g/m<sup>2</sup> with one-side PE coating 35 g/m<sup>2</sup>  
Absorption capacity : 200 g/m<sup>2</sup>



### Ordering informations

Size cm	Sheets	Pack.	Width cm	Roll	Length
<b>Grade 604 / 606</b>			<b>Grade 604 / 606</b>		
42x52	0604F00021	100	46	0604R00021	50 m
46x57	0604F00022	100	49	0604R00024	50 m
50x60	0604F00023	100	60	0604R00022	50 m
			92	0604R00023	50 m
46x57	0606F00022	50	49	0606R00024	50 m
50x60	0606F00023	50	60	0606R00022	50 m
			92	0606R00023	50 m

## JOSEPH PAPER

### APPLICATIONS

- Cleaning and drying of, glass containers, tubes, flasks, microscopic plates, bottles in laboratories and hospitals

### Grade 605 / 608

Thin paper 25 g/m<sup>2</sup>, very absorbent and no fluffy.



### Ordering informations

Size cm	Sheet	Folded sheet	Pack.
<b>Grade 605</b>			
15x15	0605F00021	-	200
35x50	0605F00022	0605M00001	500
35x50	-	0605M00002	50
35x50	-	0605M00003	25
<b>Grade 608</b>			
35x50	0608F00001	0608M00001	800
35x50	-	0608M00002	40

# Special products



## BLOTTING PAPERS

**Grade 903** Paper conform according to ISO EN 20535.  
Weight : 255 g/m<sup>2</sup>                      Thickness : 0.40 mm  
Absorption : 490 ml/cm<sup>2</sup>                      Capillar absorption : 75-85 mm (klemm)

**Grade 904** Paper conform according to ISO EN 20535.  
Weight : 190 g/m<sup>2</sup>                      Thickness : 0.41 mm  
Absorption : 300 ml/cm<sup>2</sup>                      Capillar absorption : 88-93 mm (klemm)

### Ordering informations

Size cm	Sheets	Pack.
------------	--------	-------

#### Grade 903

12x12	0903F00022	100
15x15	0903F00023	100
17x17	0903F00024	100
20x20	0903F00025	100
22x22	0903F00026	100
23x23	0903F00027	100
25x25	0903F00028	100
25x30	0903F00029	100
30x30	0903F00030	100
33x33	0903F00031	100
35x35	0903F00032	100
40x40	0903F00033	100
50x50	0903F00034	100
50x65	0903F00035	100
25x100	0903F00038	100

Size cm	Sheets	Pack.
------------	--------	-------

#### Grade 904

12x12	0904F00022	100
15x15	0904F00023	100
15x30	0904F00027	100
17x17	0904F00024	100
20x20	0904F00025	100
22x22	0904F00026	100
26x26	0904F00028	100
25x30	0904F00029	100
30x30	0904F00030	100
33x33	0904F00031	100
35x35	0904F00032	100
40x40	0904F00033	100
50x50	0904F00034	100
50x65	0904F00035	100
25x100	0904F00036	100



### APPLICATIONS

- Determination of absorption of water in the production of sized paper according to the Cobb method
- Testing of the formation of sheets in the cellulose paste industry

## FILTER-CARDS

### Grade 914                      ADMI TEST FILTER-CARD

Application : Determination of scorched particles in milk powders according to ADMI method.

### Grade 917                      SEDIMENT TEST FILTER-CARD

Application : Determination of sediment in milk powders, dairy products ...

### Ordering informations

Size mm	Sheets	Pack.
------------	--------	-------

#### Grade 914

155x57	0914N00001	500
--------	------------	-----

Size mm	Sheets	Pack.
------------	--------	-------

#### Grade 917

80x45	0917N00001	500
-------	------------	-----





# Special products

## ANTIBIOTICS TESTING PAPER

**Grade 905** Thick absorbent paper made with 100 % cotton linters fibres.

Weight: 330 g/m<sup>2</sup>

Thickness: 0.9 mm

Water absorption: 215 ml

### Ordering informations



Size

mm

Plain disc

Pack.

### Grade 905

6	0905A00001	1000
9	0905A00002	1000
12	0905A00003	1000
12.7	0905A00005	1000
25	0905A00004	1000



### APPLICATIONS

- Impregnation of antibiotics for testing the resistance of pathogenic organisms.

## CYTOCENTRIFUGAL PAPER

**Grade 906** Absorbent paper 430 g/m<sup>2</sup> used in Shandon and Bayer cytocentrifuges .

### Ordering informations



Size

mm

Sheets

Pack.

### Grade 906

62x25	0906F00002	200
77x25	0906F00003	200



### APPLICATIONS

- Absorption of excess liquids from the staining of samples in cytologic analysis.

## LENS CLEANING TISSUE

**Grade 913** Very thin paper 12 g/m<sup>2</sup> made exclusively with 100% Manilla fibres.

No fluffy. Do not scratch

### Ordering informations



Size

mm

Sheets

Pack.

### Grade 913

80x100	0913F00021	25
95x135	0913F00022	25
100x150	0913F00024	100
100x150	0913F00034	25x25
135x170	0913F00023	500
200x300	0913F00028	100



### APPLICATIONS

- Cleaning of various optical lens (objective, microscopes binoculars, magnifying glass glasses, etc...
- Cleaning of optical fibres filaments.

# Special products



## TEST SEED PAPERS

**Grade 907** Absorbent paper 160 g/m<sup>2</sup>, thickness 0.38 mm, white colour  
Application: small seeds (grasses, flowers)

**Grade 940** Absorbent paper 110 g/m<sup>2</sup>, thickness 0.24 mm, pleated grey strip  
Application: medium sized and crushed seeds (sugar beet, fodder beet, cereals, sunflowers, colza, mustard)

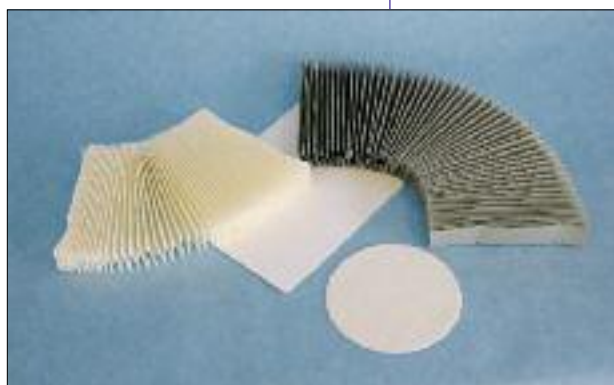
### Ordering informations

Size mm	plain disc	Sheets	Pleated strip	Pack.
------------	------------	--------	---------------	-------

### Grade 907 / 940

85	0907A00001	-	-	100
90	0907A00002	-	-	100
85x120	-	0907F00001	-	500
110(B)	-	-	0907P00022	1000
110(G)	-	-	0940P00021	1000

Other sizes on request



### APPLICATIONS

- Control of germination of seed samples

## STERILIZATION PAPER

### Grade 925 (white) / 926 (green)

Creped paper 60 g/m<sup>2</sup>, conform according EN 868-2 norm.  
 Colours: white / green



### Ordering informations

Size cm	Sheets	Sheets	Pack.
------------	--------	--------	-------

### Grade 925 / 926

30x30	0925F00020	----	2000
50x50	0925F00022	0926F00022	500
60x60	0925F00023	----	500
75x75	0925F00024	----	250
90x90	0925F00025	----	250
100x100	0925F00026	0926F00026	250
120x120	0925F00027	----	100

### APPLICATIONS

- Wrapping of medical clothes, surgical instruments and others articles used in steam, gas and gamma-ray sterilization



# Special products

## CLEANING PAPERS

### APPLICATIONS

- Industry
- Laboratories
- Food industries

### Pure cellulose wadding (white)

Paper made with pure cellulose wadding, WS treated, 2 layers 19 g/m<sup>2</sup>, pre-cut. Food quality.  
Availability : rolls of 450 or 1000 sheets.

### Standard cellulose wadding (unbleached)

Paper made with mixed cellulose wadding, WS treated, 2 layers 19 g/m<sup>2</sup>, pre-cut.  
Availability : rolls of 450, 1000 or 1500 sheets.

### Recycled cellulose wadding (brown)

Paper made with recycled cellulose wadding, WS treated, 2 layers 22 g/m<sup>2</sup>, pre-cut.  
Availability : rolls of 450, 1000 or 1500 sheets.



### Ordering informations



636R



657R



640R



637R



638R



641R



642R

Grades	0636R00021	0657R00021	0640R00021	0637R00021	0638R00021	0641R00021	0642R00021
Wadding	white	white	unbleached	unbleached	unbleached	brown	brown
Sheets n°	450	1000	450	1000	1500	1000	1500
Size (cm)	20x30	25x30	25x30	25x30	25x30	25x30	25x30
Pack.	6 rolls	2 rolls	6 rolls	2 rolls	2 rolls	2 rolls	2 rolls

## SUPPORT CLEANING ROLLS

### Grade 635

White gloss finish steel support with cutting system.  
Rolls width: 30 cm max.

Availability: - wall  
- stand holder

### Ordering informations

Support	Grade	Pack.
---------	-------	-------

### Grade 635

wall	0635N00021	unit
stand holder	0635N00022	unit





# Chromatography papers

## Grade 501

Application : Standard chromatography paper for routine and simple analysis

## Grade 502

Application : General chromatographic works in mineral, organic and biological chemistry.

## Grade 503

Application : For applications which need a high loading capacity.

## Grade 504

Application : For circular chromatography and evolution by the elution method

## Grade 508

Application : Suitable for electrophoresis and chromatographic works

## Grade 511

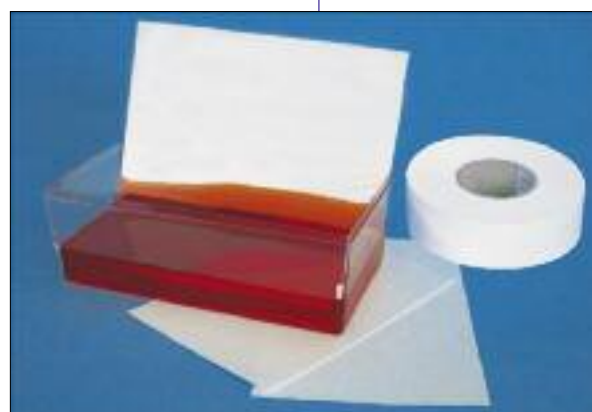
Application : Preparative chromatography, separation by electrophoresis of coarser molecules.

## APPLICATIONS

- Separation and identification des additives in food
- Determination of malic acid content in wines caused by fermentation
- Separation and identification of samples unknown composition in research laboratories

## Technical specifications

Grade	Weight g/m <sup>2</sup>	Thickness mm	Absorption speed	Capillary rise (mm/30 mn)
501	90	0,19	fast	145
502	125	0,25	fast	145
503	90	0,19	medium	95
504	125	0,24	medium	95
508	200	0,35	fast	115
511	320	0,90	very fast	240



## Ordering informations



Size (cm)

**501**



**502**



**503**



**504**



**508**



**511**

<b>46x57</b>	0501F00021	0502F00021	0503F00021	0504F00021	0508F00021	----
<b>58x60</b>	0501F00022	0502F00022	0503F00022	0504F00022	0508F00022	0511F00021
<b>Pack.</b>	100	100	100	100	50	25



Width (mm)

**501**

<b>50</b>	0501R00021
<b>100</b>	0501R00022
<b>Length</b>	100m



Width (mm)

**508**

<b>150</b>	0508R00022
<b>Length</b>	100m



# Filter paper for cigarettes test

## Properties

- Conform according to ASTM E2187-04 norm
- Constant weight
- Surface perfectly smooth
- Each lot is certified

### APPLICATIONS

- Measuring the Ignition Strength of Cigarettes

## Technical specifications

Grade	Weight g/m <sup>2</sup>	Thickness mm	Filt° Speed sec*	Ash content %	Burst strength KPa
2CT	98	0,19	60	0.06	> 5

\*According to DIN 53137

## Ordering informations

Size mm	Plain disc	Pack.
150	0970A00009	100

### Grade 2CT

150 0970A00009 100



# New born screening paper

## Properties

- Composition: 100% cotton linters fibres
- Approbation: NCCLS (National Committee for Clinical Laboratory Standard)
- Printable paper
- CE marks

### APPLICATIONS

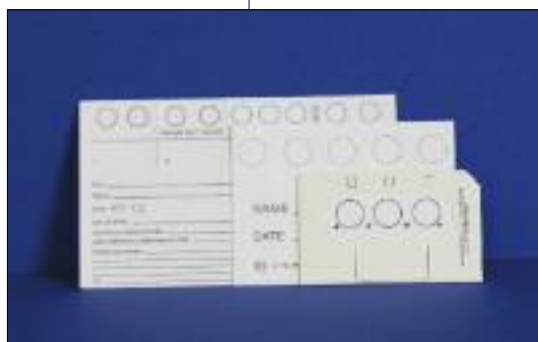
- Blood samples and other body fluids

## Technical specifications

Grade	Weight g/m <sup>2</sup>	Thickness mm	Absorption mm/10 mn
930	179	0,44	120

## Ordering informations

On request





# Cellulose stoppers



## Properties

They are made exclusively with pure cellulose fibres.

- Economical
- Permeable in air.
- Sterilizable to 200 °C maximum.
- Hygienic (single use)



## APPLICATIONS

- Easy stopping of :
  - flasks
  - erlenmeyers
  - test tubes
  - various bottles, ...

## Ordering informations



**Size**  
mm      **Stoppers**      **Pack.**

### Grade 5

5x9x30	0005N00052	1000
6x8.5x11	0005N00051	1000
7x11x30	0005N00053	1000
8x14x32	0005N00054	1000
9x12x30	0005N00055	1000
10x18x37	0005N00056	1000
11x16x32	0005N00057	1000
11x17x40	0005N00058	1000
12x17x37	0005N00059	1000
12x18x42	0005N00060	1000
12x20x32	0005N00061	1000
13x18x32	0005N00062	1000
15x19x30	0005N00063	1000
16x20x30	0005N00064	1000
17x21x38	0005N00065	1000
18x22x30	0005N00066	1000
19x24x30	0005N00067	1000

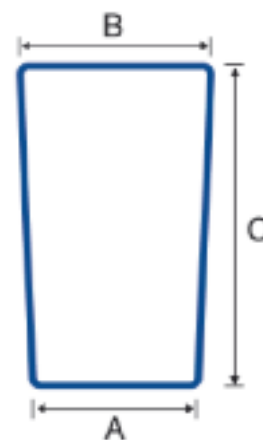


**Size**  
mm      **Stoppers**      **Pack.**

### Grade 5

20x23x41	0005N00068	500
23x28x30	0005N00069	500
24x28x43	0005N00070	200
25x34x60	0005N00071	200
26x36x60	0005N00072	200
28x33x63	0005N00073	200
29x38x60	0005N00074	200
30x40x40	0005N00075	200
30x42x55	0005N00076	100
33x37x63	0005N00077	100
35x36x40	0005N00078	200
35x40x60	0005N00079	100
35x46x60	0005N00080	100
37x50x50	0005N00081	100
39x61x63	0005N00082	50
40x58x65	0005N00083	50
42x52x51	0005N00084	50
58x65x70	0005N00085	25

Example : 5x9x30 mm  
A = 5 ; B = 9 ; C = 30





# Technical filter papers

The **FILTRES FIORONI** company offers a wide range of **technical filter papers** with specific requirements used in various sectors for the filtration of all types of liquids.

These papers are made with 100% of pure cellulose fibres and have been strengthened to resist to pressure when they are used in filter press systems.

## Properties

- Choice :
  - range : smooth surface papers / creped surface papers
  - weight : from 60 to 190 g/m<sup>2</sup>
  - filtrat° speed : fast / medium / slow
- Mechanical resistance
- Food compatibility



## Technical specifications

Grade	Weight g/m <sup>2</sup>	Thickness mm	Pore size µm	Filt° speed sec*	Burst strength kg/cm <sup>2</sup>	Surface
1100	60	0,2	50-60	4	1,50	creped
1101	160	0,55	38-75	26	1,55	creped
1102	190	0,65	25-35	27	1,90	creped
1103	150	0,3	121-6	65	3,90	smooth
1105	185	0,39	3-6	80	4,00	smooth
1106	160	0,47	50-80	12	1,50	smooth
1107	160	0,38	20-30	45	3,20	smooth
1125	85	0,18	12-15	60	1,45	smooth
300	90	0,33	25-45	25	1,65	creped
302	140	0,45	45-65	14	1,80	creped
305	240	0,78	55-65	28	3,00	creped

\*According to DIN 53137

### AVAILABILITY



Plain discs



Folded discs



Sheets



Discs with hole



Sheets with hole



# Technical filter papers

## Grade 1100

Creped thin paper, wetstrengthened, used for filtration of coarse particles and gelatinous precipitates.

**Applications :** viscous liquids as arabic gum, gelatine, emulsions like agar-agar, alginate, protective paper for filter sheets

## Grade 1101

Thick creped paper, wetstrengthened, used for filtration of fatty products and suitable for hot filtrations.

**Applications :** syrups, essential oils, varnish, resinous solutions, paints, sweetened juices, wines ...

## Grade 1102

Thick creped paper, wetstrengthened, used for contaminated industrial liquids

**Applications :** varnish, glycerine, olive oil polishing, dyes stuffs, lacquers and chemical products...

## Grade 1103

Thick smooth paper, wetstrengthened, suitable for the removal of fines particles

**Applications :** dyes, ether, alcoholic solutions, Eaux de Cologne, salted solutions, vegetal extracts, hair solutions, perfumes, tinctures, saccharine juices, vinegar ...

## Grade 1105

Very thick smooth paper, wetstrengthened, with high separation capacity, suitable for filtration of large volume of liquid.

**Applications :** serum, vaccine, injectable products, hot alkaline solutions, produits volatiles, perfumes, essences, belt filter for the sugar industry

## Grade 1106

Thick smooth paper, with large pore structure used for viscous liquids and coarse particles

**Applications :** sirups, animal fats, vegetable fats, margarines, gelatine, dense oils, emulsions, essential oils, ...

## Grade 1107

Thick smooth paper, with medium pore structure used for filtration of semi-fine particles

**Applications :** serum, culture medium, dyes, tinctures, vegetal extracts, turbid liquids, juices, Eaux de Cologne, perfumes, essences, hair tonics...

## Grade 1125

Thin smooth paper, wetstrengthened, medium filtering velocity

**Applications :** clarification of galvanic baths, chemical products ...

## Grade 300

Thin creped paper, wetstrengthened, fast filtering velocity

**Applications :** filtration of galvanic baths, vegetable oils, technical oils, recovery of precious metals

## Grade 302

Thick creped paper, wetstrengthened, fast filtering velocity

**Applications :** filtration of fruit juices, musts, wines, edible oils, ...

## Grade 305

Very thick creped paper, wetstrengthened, fast filtering velocity

**Applications :** brilliant clarification of olive oils, filtration of chemical products ...

## APPLICATIONS

- Chemical industry
- Cosmetic industry
- Food industry
- Pharmaceutical industry



# Technical filter papers

## Ordering informations



**Size**  
mm    **Plain disc**    **Folded disc**    **Pack.**

### Grade 1101

Size (mm)	Plain disc	Folded disc	Pack.
70	1101A00016	-	100
90	1101A00017	-	100
110	1101A00019	1101P00032	100
125	1101A00035	1101P00020	100
150	1101A00020	1101P00021	100
185	1101A00021	1101P00022	100
210	1101A00037	-	100
250	1101A00023	1101P00023	100
330	1101A00024	1101P00024	100
400	1101A00025	1101P00025	100
500	1101A00026	1101P00026	100
600	1101A00027	1101P00027	100
650	1101A00028	1101P00028	100
700	1101A00029	1101P00029	100
800	1101A00030	1101P00030	100
1000	1101A00031	1101P00031	100



**Size**  
mm    **Plain disc**    **Folded disc**    **Pack.**

### Grade 1106

Size (mm)	Plain disc	Folded disc	Pack.
70	1106A00004	-	100
90	1106A00006	-	100
110	1106A00007	-	100
125	1106A00008	1106P00020	100
150	1106A00009	1106P00021	100
190	1106A00011	1106P00022	100
210	1106A00013	-	100
250	1106A00014	1106P00023	100
330	1106A00024	1106P00024	100
400	1106A00025	1106P00025	100
500	1106A00026	1106P00026	100
600	1106A00027	1106P00027	100
650	1106A00028	1106P00029	100
700	1106A00029	1106P00029	100
800	1106A00030	1106P00030	100
1000	1106A00031	1106P00031	100



**Size**  
mm    **Plain disc**    **Folded disc**    **Pack.**

### Grade 1107

Size (mm)	Plain disc	Folded disc	Pack.
70	1107A00007	-	100
90	1107A00008	-	100
110	1107A00009	-	100
125	1107A00010	1107P00020	100
150	1107A00021	1107P00021	100
190	1107A00011	1107P00022	100
210	1107A00012	-	100
240	1107A00023	1107P00023	100
330	1107A00024	1107P00024	100
400	1107A00025	1107P00025	100
500	1107A00026	1107P00026	100
600	1107A00027	1107P00027	100
650	1107A00028	1107P00028	100
700	1107A00029	1107P00029	100
800	1107A00030	1107P00030	100
1000	1107A00031	1107P00031	100

### Grade 1103

Size (mm)	Plain disc	Folded disc	Pack.
45	1103A00012	-	100
47	1103A00013	-	100
55	1103A00014	-	100
70	1103A00015	-	100
90	1103A00016	-	100
110	1103A00017	-	100
125	1103A00019	1103P00000	100
150	1103A00021	1103P00001	100
190	1103A00022	1103P00002	100
210	1103A00035	-	100
250	1103A00023	1103P00003	100
330	1103A00024	1103P00004	100
400	1103A00025	1103P00005	100
500	1103A00026	1103P00006	100
600	1103A00027	1103P00007	100
650	1103A00028	1103P00008	100
700	1103A00029	1103P00009	100
800	1103A00030	1103P00010	100
1000	1103A00031	1103P00011	100
460x570	1103F00023		100

### Grade 1105

Size (mm)	Plain disc	Folded disc	Pack.
45	1105A00002	-	100
47	1105A00001	-	100
55	1105A00003	-	100
70	1105A00004	-	100
90	1105A00006	-	100
110	1105A00007	-	100
125	1105A00008	-	100
150	1105A00010	1105P00021	100
190	1105A00012	1105P00022	100
210	1105A00013	-	100
250	1105A00014	1105P00023	100
330	1105A00015	1105P00024	100
400	1105A00016	1105P00025	100
500	1105A00017	1105P00026	100
600	1105A00018	1105P00027	100
650	1105A00019	1105P00028	100
700	1105A00020	1105P00029	100
800	1105A00021	1105P00030	100
1000	1105A00022	1105P00031	100
460x570	1105F00023		100

### Grade 1100

Size (mm)	Plain disc	Folded disc	Pack.
55	1100A00003	-	100
70	1100A00004	1100P00020	100
90	1100A00005	1100P00021	100
110	1100A00006	1100P00022	100
125	1100A00007	1100P00023	100
150	1100A00009	1100P00024	100
185	1100A00010	-	100
190	1100A00013	1100P00025	100
210	1100A00018	-	100
240	1100A00014	1100P00026	100
320	1100A00015	1100P00027	100
400	1100A00016	1100P00028	100
500	1100A00020	1100P00030	100
420x520	1100F00021		500
520x520	1100F00022		500
500x1050	1100F00023		500
650x1350	1100F00024		500

### Grade 1102

Size (mm)	Plain disc	Folded disc	Pack.
190	1102A00022	1102P00022	100
250	1102A00023	1102P00023	100
330	1102A00024	1102P00024	100
400	1102A00025	1102P00025	100
500	1102A00026	1102P00026	100
650	1102A00028	1102P00028	100
700	1102A00029	1102P00029	100
800	1102A00030	1102P00030	100
1000	1102A00031	1102P00031	100

### Grade 302

Size (mm)	Plain disc	Folded disc	Pack.
500x1050	0302F00021		100
650x1350	0302F00022		100
670x1450	0302F00024		100

### Grade 1125

Size (mm)	Plain disc	Folded disc	Pack.
125	1125A00002	-	100
150	1125A00015	-	100
185	1125A00016	-	100
250	1125A00017	-	100
320	1125A00018	-	100
500	1125A00019	-	100
800	1125A00050	-	100
195/61	1125A00121	-	500
258/40	1125A00122	-	500
350/60	1125A00124	-	500
456/100	1125A00123	-	500



# Board filters

These filters are mainly used in specific applications in various industrial filtration process. Available in all configurations of filter-press system.

Grade	Weight g/m <sup>2</sup>	Thick. mm	Burst str. kg/cm <sup>2</sup>	Applications
700	190	0.41	1,6	filtration of chemical products, edible oils,
701	280	0.44	2,6	galvanic baths, hydrocarbons, lacquers
702	300	0.65	2,8	mineral oils (transformers, turbines, machines)
703	390	0.93	3,2	galvanic baths, oils for transformers, resines
704	500	1.13	7,0	essential oils, edible oils brilliant filtration, soaking of industrial substances
705	350	0.78	5,0	oils for transformers, hydrocarbons, clarification of chemical products
707	250	0.58	3,5	technical oils, paraffin, clarification of cosmetic products
711	490	1.25	7.5	process waters, retention of active carbon, pharmaceutical products

## APPLICATIONS

- Chemical industry
- Cosmetic industry
- Pharmaceutical industry
- Food industry



# Filter-press system

This filter press system is suitable to do filtrations of small volumes of certain liquids whose production is done at reduced scale.

## Properties

- economical (including pump)
- easy to handle
- reliable and precise
- reduced size

## Technical specifications

- material : stainless steel
- PP supports : 6 /12 /18
- sheets size : 20x20 cm
- max. pressure. : 20 bars
- supplying : 220 V
- inlet connecting : 20 mm





# Filter sheets

**FILTRES FIORONI** company offer a wide range of filter sheets to solve the problems of process separation liquid/solid in large industrial fields.

## APPLICATIONS

- **Cosmetic industry :**  
(perfumes, toilette water, alcohols, vegetal extracts tinctures, essential oils, saops), ...
- **Chemical industry :**  
(resins, varnishes, solvents, lacquers, wax), ...
- **Pharmaceutical industry :**  
(vaccines, medical fluids, products of synthesis, syrups), ...
- **Food industry :**  
(syrups, glucose, mineral oils, vegetable and olive oils, flavours), ...
- **Beverages :**  
(beers, malt, wines, musts, liqueurs, fruit drinks, cider, mineral waters, ...

## Properties

- **Composition :** 100% cellulose or Cellulose + Kieselghur or PE fibres
- **Filtration :** Surface retention / Depth retention
- **Food compatibility (FDA approved resins)**
- **Chemical resistance against acid and basic liquids**
- **Tracking :** lot number printed on the filter sheet



plain disc



disc + 1 hole



disc + 2 holes

size : 20,5 - 25,8 - 26,5 - 30 - 32,8 - 40 - 42,5  
45 - 45,6 - 50 - 60 - 66 - 80 - 85 cm



sheets



sheets + 2 holes



sheets + 4 holes

size : 20 x 20 - 40 x 40 - 60 x 60 cm



## Technical specifications

	Grade	Weight g/m <sup>2</sup>	Thickness mm	Permeability L/m <sup>2</sup> /mm	Pore size µm	Retention µbio %	Retention µm
PREFILTRATION	800	700	4	3750	65	-	40.0/50.0
	801	775	3,45	2286	50	-	25.0/35.0
	802	775	2	1510	34,5	-	20.0/25.0
	803	800	3,2	3086	45	-	14.0/20.0
	804	1000	3,6	861	30	-	12.0/15.0
	805	950	2,2	731	24,5	-	10.0/15.0
CLARIFICATION	806	1100	2,9	314	19	-	3.0/8.0
	807	1100	3,35	450	24,5	-	2.0/7.0
	808	1200	3,25	190	16	-	1.0/5.0
	809	1200	3,35	148	21,5	-	0.9/2.0
	810	1200	3,05	171	14	99,98	0.6/1.0
	811	1250	3,35	89	17,5	99,98	0.5/1.0
	812	1250	3,2	122	11	99,998	0.4/0.6
	813	1300	3,35	60	14,5	99,998	0.4/0.6
	814	1300	3,1	73	11	99,999	0.3/0.5
STERILIZATION	815	1350	3,35	55	13,5	99,999	0.3/0.5
	820	1450	3,45	48	9	99,9999	0.2/0.3
	825	1500	3,75	44	13,5	99,9999	0.2/0.3
	826	1400	3,45	48	8,85	99,99999	0.15/0.25
	830	1500	4	20	8	99,99999	0.04/0.2



# Lenticular modules

We have developed a line of filter modules based on our filter sheet technology that offers a greater filter surface and a very uniform porous structure, obtaining the maximum retention.

## Properties

The structure of the module is made of 16 lenses that are assembled by a joint system. At the same time, each lens that has been sealed outwardly has 2 filter sheets, an internal divider that guarantees the independence of all the system.

Even if this filtration system has a higher cost, using it has the following advantages:

- It uses less space.
- Requires less time of assembly and dismantling.
- Higher germ-free system.
- Avoids the contact of the product with the environment

## Sizes

■ Type-12	Diameter 12"	Surface 1,8m <sup>2</sup>
■ Type 16	Diameter 16"	Surface 3.6m <sup>2</sup>

## Grades classification

■ Prefiltration	801 - 803 - 804 - 843
■ Clarification	806 - 807 - 808 - 809 - 810 811 - 812 - 813
■ Sterilization	814 - 815 - 820 - 825 - 826 - 830

## Active carbon module

We produce filter sheets with high content of active carbon (45%) used to correct shades of colour, smell and flavour.

This range of filter sheets is used mainly in the beverages industry and in the bleaching and deodorisation of liquids.





# Industrial filtration

## NONWOVEN FILTERS

These filters are made with very long synthetic fibres combined with each other in a more or less regular fashion by synthetic resins. They offer some interesting properties when compared to other traditional types such as those made of cellulose.

### Properties

- Media : Viscose / Synthetic
- Wet strength resistance
- High flow rate
- Good absorption
- Availability : rolls / discs / sheets



### Technical specifications

Grade	Weight	Thickness	Pore size	Permeability	
	g/m <sup>2</sup>	mm	µm	water (m <sup>3</sup> /m <sup>2</sup> /h)	air (l/m <sup>2</sup> /s)
2025	25	0,20	193	369	5399
2035	35	0,26	181	323	4633
2050	50	0,35	158	254	3483

## NYLON MESH FILTER

### Properties

- Media Polyamide 6.6 Polypropylene
- Pore size 1-325 µm 75-5100 µm
- Max temperature 115 °C 90 °C
- Abrasion resist. good limited
- Acid resistance limited good
- Availability discs / sheets / rolls



## ACTIVE CARBON LINE FILTER

This line filter is used for filtration of samples of hydrocarbons, cetone, alcohols, ether, organic acids, ambient air, various gases, smokes, ...

**Composition:** housing green transparent polycarbonate  
media active carbon granule + cellulose disc

**Size:** external diam. : 26 mm X length: 82 mm

**Connecting:** inlet / outlet 6.3 mm

### Technical specifications

Grade	Active carbon volume	Pressure of Service	Max. temperature
	cm <sup>3</sup>	bars	°C
1000N00001	11,5	4	70

### APPLICATIONS

- Quick filtration of samples with visible particles
- Recovery of large particles of precious materials
- Artificial insemination in cattle breeding
- Filtration of cutting oils
- Filtration of dairy products (milk , sugar)
- Filtration of process waters

- Waste water and drinkable waters,
- Air and gases,
- Various filtrations ...





# Industrial filtration



## WOUNDED YARN CARTRIDGES

Grade	7101N	7102N	7103N	7104N	7105N	7106N
Media filter	polypropylene	cotton	nylon	viscose	polyester	glass fibres
Core	PP	PP	PP	PP	PP	PP
Pore size	1 / 3 / 5 / 10 / 20 / 30 / 50 / 75 / 100 µm					
Sizes	5" = 102 mm / 10" = 254 mm / 20" = 508 mm / 30" = 762 mm / 40" = 1016 mm					
Temp. max.	90 °C	110 °C	120 °C	115 °C	140 °C	400 °C
Connecting	DOE / 2.222 / 2.226					
Pack	10" = box of 60 / 20" = box of 30 / 30" = box of 30 / 40" = box of 20					



## NON PLEATED PP CARTRIDGES

Grade	7001N	7201N
Media	polypropylene fibres	polypropylene fibres
Core	PP	PP
Pore size	1 / 3 / 5 / 10 / 20 / 30 / 50 / 75 / 100 µm	0.2 / 0.45 / 1 / 2 / 3 / 5 / 10 µm
Sizes	5" = 102 mm / 10" = 254 mm / 20" = 508 mm / 30" = 762 mm / 40" = 1016 mm	
Temp. max.	60 °C	60 °C
Connecting	DOE / 2.222 / 2.226	
Pack.	10" = box of 60 / 20" = box of 30 / 30" = box of 30 / 40" = box of 20	

## FILTER HOUSING

### Grade 9000N

Material : PP  
 Pressure : 6 bars  
 Connecting : 1" or 3/4"  
 Size : 10" / 20" / 30" / 40"  
 Cartridges number : 1

### Grade 9001N

Material : Stainless steel  
 Pressure : 10 bars  
 Connecting : 1" or 3/4"  
 Size : 10" / 20"  
 Cartridges number : 1

## APPLICATIONS

- Water treatment
- Beverages and food products
- Filtration of galvanic baths
- Chemical and petro-chemical products
- Hydro-electric and electronic filtration, ...
- Clarification, prefiltration and filtration of process fluids
- Filtration of cosmetic products
- Pharmaceutical prefiltration and filtration
- Prefiltration and final filtration of deionized water system, ...

