

# WINTECH

Filtration Technology

## Filter Paper Catalogue



### Qualitative Filter Papers - Standard Grades

Wintech	No.1	No.2	No.3	No.4	No.5	No.6
Whatman	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6

### Quantitative Filter Papers - Ashless Grades (Ash 0.008%)

Wintech	No.40	No.41	No.42	No.43	No.44
Whatman	Grade 40	Grade 41	Grade 42	Grade 43	Grade 44

### Glassmicrofiber Filter Papers -

Wintech	No.GF/A	No.GF/B	No.GF/C
Whatman	Grade GF/A	Grade GF/B	Grade GF/C

## Qualitative Filter Papers - Standard Grades

The cellulose filters are used in qualitative analytical techniques to determine and identify materials. WINTECH qualitative filter papers are manufactured from the same raw materials as the ashless grades and are particularly suited for general laboratory filtrations. The average ash content is about 0.1%, the amount of cellulose is about 95%.

Wintech	No.1	No.2	No.3	No.4	No.5	No.6
Whatman	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6

### WINTECH NO.1

- Widely used in the routine applications with medium retention and flow rate.
- Ideal for general laboratory filtration.

#### Specifications:

Product	Basis weight(g/m <sup>2</sup> )	Typical thickness(mm)	Particle Retention Liquid (um)	Ash (%)
Wintech No.1	85-94	0.15-0.19	11	<0.06

#### Ordering Information:

Cat No.	Size	Packaging
WIN-1-047	47mm	100pcs/pk
WIN-1-055	55mm	100pcs/pk
WIN-1-070	70mm	100pcs/pk
WIN-1-090	90mm	100pcs/pk
WIN-1-110	110mm	100pcs/pk
WIN-1-125	125mm	100pcs/pk
WIN-1-150	150mm	100pcs/pk
WIN-1-185	185mm	100pcs/pk
WIN-1-240	240mm	100pcs/pk
WIN-1-270	270mm	100pcs/pk

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### WINTECH NO.2

- Ideal for general laboratory filtration,
- For filtration of environmental samples.

#### Specifications:

Product	Basis weight(g/m <sup>2</sup> )	Typical thickness(mm)	Particle Retention Liquid (um)	Ash (%)
Wintech No.2	93-99	0.17-0.20	8	<0.06

#### Ordering Information:

Cat No.	Size	Packaging
WIN-2-047	47mm	100pcs/pk
WIN-2-055	55mm	100pcs/pk
WIN-2-070	70mm	100pcs/pk
WIN-2-090	90mm	100pcs/pk
WIN-2-110	110mm	100pcs/pk
WIN-2-125	125mm	100pcs/pk
WIN-2-150	150mm	100pcs/pk
WIN-2-185	185mm	100pcs/pk
WIN-2-240	240mm	100pcs/pk
WIN-2-270	270mm	100pcs/pk

### WINTECH NO.3

- Thick filter paper for large quantities of liquids.
- For filtration of environmental samples.

#### Specifications:

Product	Basis weight(g/m <sup>2</sup> )	Typical thickness(mm)	Particle Retention Liquid (um)	Ash (%)
Wintech No.3	181-187	0.38-0.40	6	<0.06

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### Ordering Information:

Cat No.	Size	Packaging
WIN-3-047	47mm	100pcs/pk
WIN-3-055	55mm	100pcs/pk
WIN-3-070	70mm	100pcs/pk
WIN-3-090	90mm	100pcs/pk
WIN-3-110	110mm	100pcs/pk
WIN-3-125	125mm	100pcs/pk
WIN-3-150	150mm	100pcs/pk
WIN-3-185	185mm	100pcs/pk
WIN-3-240	240mm	100pcs/pk
WIN-3-270	270mm	100pcs/pk

### WINTECH NO.4

- Fast Filtration, for retention of coarse and gelatinous precipitates.
- Useful as a rapid filter for routine clean-up of biological fluids or organic extracts during analysis.

### Specifications:

Product	Basis weight(g/m <sup>2</sup> )	Typical thickness(mm)	Particle Retention Liquid (um)	Ash (%)
Wintech No.4	88-94	0.19-0.22	20-25	<0.06

### Ordering Information:

Cat No.	Size	Packaging
WIN-4-047	47mm	100pcs/pk
WIN-4-055	55mm	100pcs/pk
WIN-4-070	70mm	100pcs/pk
WIN-4-090	90mm	100pcs/pk
WIN-4-110	110mm	100pcs/pk
WIN-4-125	125mm	100pcs/pk
WIN-4-150	150mm	100pcs/pk
WIN-4-185	185mm	100pcs/pk
WIN-4-210	210mm	100pcs/pk
WIN-4-225	225mm	100pcs/pk

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### WINTECH NO.5

- Very slow filtration for extremely fine precipitates
- Ideal for water analysis, biological products.

#### Specifications:

Product	Basis weight(g/m <sup>2</sup> )	Typical thickness(mm)	Particle Retention Liquid (um)	Ash (%)
Wintech No.5	96-102	0.18-0.21	2.5	<0.06

#### Ordering Information:

Cat No.	Size	Packaging
WIN-5-047	47mm	100pcs/pk
WIN-5-055	55mm	100pcs/pk
WIN-5-070	70mm	100pcs/pk
WIN-5-090	90mm	100pcs/pk
WIN-5-110	110mm	100pcs/pk
WIN-5-125	125mm	100pcs/pk
WIN-5-150	150mm	100pcs/pk
WIN-5-185	185mm	100pcs/pk
WIN-5-240	240mm	100pcs/pk
WIN-5-270	270mm	100pcs/pk

### WINTECH NO.6

- Slow filtration for fine precipitates
- Ideal for water analysis, biological products.

#### Specifications:

Product	Basis weight(g/m <sup>2</sup> )	Typical thickness(mm)	Particle Retention Liquid (um)	Ash (%)
Wintech No.6	81-87	0.16-0.18	3	<0.06

# WINTECH

## Filtration Technology

### Ordering Information:

Cat No.	Size	Packaging
WIN-6-047	47mm	100pcs/pk
WIN-6-055	55mm	100pcs/pk
WIN-6-070	70mm	100pcs/pk
WIN-6-090	90mm	100pcs/pk
WIN-6-110	110mm	100pcs/pk
WIN-6-125	125mm	100pcs/pk
WIN-6-150	150mm	100pcs/pk
WIN-6-185	185mm	100pcs/pk
WIN-6-240	240mm	100pcs/pk
WIN-6-270	270mm	100pcs/pk

### Quantitative Filter Papers - Ashless Grades (Ash <0.01%)

WINTECH ashless filter papers are particularly suited for quantitative routine analysis. They are acid-washed and have an extremely low ash content of 0.01%. It good for gravimetric analysis and the preparation of samples for instrumental analysis.

Wintech	No.40	No.41	No.42	No.43	No.44
Whatman	Grade 40	Grade 41	Grade 42	Grade 43	Grade 44

### WINTECH NO.40

- Ashless, medium fast filtration, ideal for water analysis, biological analysis.
- Typical applications include gravimetric analysis for numerous components in cements, clays, iron and steel products.

#### Specifications:

Product	Basis weight(g/m <sup>2</sup> )	Typical thickness(mm)	Particle Retention Liquid (um)	Ash (%)
Wintech No.40	90-96	0.19-0.22	8	<0.007

# WINTECH

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### Ordering Information:

Cat No.	Size	Packaging
WIN-40-047	47mm	100pcs/pk
WIN-40-055	55mm	100pcs/pk
WIN-40-070	70mm	100pcs/pk
WIN-40-090	90mm	100pcs/pk
WIN-40-110	110mm	100pcs/pk
WIN-40-125	125mm	100pcs/pk
WIN-40-150	150mm	100pcs/pk
WIN-40-185	185mm	100pcs/pk
WIN-40-240	240mm	100pcs/pk
WIN-40-270	270mm	100pcs/pk

### WINTECH NO.41

- Ashless, fast filtration, for coarse particles or gelatinous precipitates.
- Used in environmental monitoring.

### Specifications:

Product	Basis weight(g/m <sup>2</sup> )	Typical thickness(mm)	Particle Retention Liquid (um)	Ash (%)
Wintech No.41	82-88	0.21-0.23	20-25	<0.007

### Ordering Information:

Cat No.	Size	Packaging
WIN-41-047	47mm	100pcs/pk
WIN-41-055	55mm	100pcs/pk
WIN-41-070	70mm	100pcs/pk
WIN-41-090	90mm	100pcs/pk
WIN-41-110	110mm	100pcs/pk
WIN-41-125	125mm	100pcs/pk
WIN-41-150	150mm	100pcs/pk
WIN-41-185	185mm	100pcs/pk
WIN-41-240	240mm	100pcs/pk
WIN-41-270	270mm	100pcs/pk

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### WINTECH NO.42

- Ashless, slow filtration, for fine and extremely fine precipitates.
- Typical analytical precipitates include barium sulfate, metastannic acid, and finely precipitated calcium carbonate.

#### Specifications:

Product	Basis weight(g/m <sup>2</sup> )	Typical thickness(mm)	Particle Retention Liquid (um)	Ash (%)
Wintech No.42	94-100	0.18-0.21	2.5	0.007

#### Ordering Information:

Cat No.	Size	Packaging
WIN-42-047	47mm	100pcs/pk
WIN-42-055	55mm	100pcs/pk
WIN-42-070	70mm	100pcs/pk
WIN-42-090	90mm	100pcs/pk
WIN-42-110	110mm	100pcs/pk
WIN-42-125	125mm	100pcs/pk
WIN-42-150	150mm	100pcs/pk
WIN-42-180	180mm	100pcs/pk
WIN-42-240	240mm	100pcs/pk
WIN-42-270	270mm	100pcs/pk

### WINTECH NO.43

- Ashless, medium fast filtration
- Typical applications include inorganic analysis in the construction, mining and steel industries.
- Used in environmental monitoring.

#### Specifications:

Product	Basis weight(g/m <sup>2</sup> )	Typical thickness(mm)	Particle Retention Liquid (um)	Ash (%)
Wintech No.43	92-98	0.20-0.23	16	0.007



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## Ordering Information:

Cat No.	Size	Packaging
WIN-43-047	47mm	100pcs/pk
WIN-43-055	55mm	100pcs/pk
WIN-43-070	70mm	100pcs/pk
WIN-43-090	90mm	100pcs/pk
WIN-43-110	110mm	100pcs/pk
WIN-43-125	125mm	100pcs/pk
WIN-43-150	150mm	100pcs/pk
WIN-43-185	185mm	100pcs/pk
WIN-43-240	240mm	100pcs/pk
WIN-43-270	270mm	100pcs/pk

## WINTECH NO.44

- Ashless, slow filtration, for all fine precipitates.

## Specifications:

Product	Basis weight(g/m <sup>2</sup> )	Typical thickness(mm)	Particle Retention Liquid (um)	Ash (%)
Wintech No.44	74-80	0.16-0.18	3	0.007

## Ordering Information:

Cat No.	Size	Packaging
WIN-44-047	47mm	100pcs/pk
WIN-44-055	55mm	100pcs/pk
WIN-44-070	70mm	100pcs/pk
WIN-44-090	90mm	100pcs/pk
WIN-44-110	110mm	100pcs/pk
WIN-44-125	125mm	100pcs/pk
WIN-44-150	150mm	100pcs/pk
WIN-44-185	185mm	100pcs/pk
WIN-44-240	240mm	100pcs/pk
WIN-44-270	270mm	100pcs/pk

JAPAN

### GLASS MICROFIBER FILTERS

WINTECH offer a full range of glass microfiber filters manufactured by the mill from 100% pure borosilicate glass. Because of their intrinsic properties, glass microfiber filters have wide applications in many areas of laboratory analysis, especially when fine filtration and high loading capacity is required. Applications for glass microfiber filters include environmental analysis for water, wastewater, testing of soils, air pollution and monitoring, research and process biochemistry, and gravimetric analysis involving ignition of samples. Glass Microfiber filters are also found in the filtration of hot gases and liquids, and in pre-filtration.

Wintech	No.GF/A	No.GF/B	No.GF/C
Whatman	Grade GF/A	Grade GF/B	Grade GF/C

#### WINTECH NO.GF/A

- Ideal for high efficiency general purpose lab filtration, recommended for gravimetric determination of air borne particulates, stock sampling & absorption method of air pollution monitoring.
- Ideal for radioimmunoassay of weak  $\beta$  emitters & for gravimetric analysis volatile materials where ignition is involved.

#### Specifications:

Product	Basis weight(g/m <sup>2</sup> )	Typical thickness(mm)	Particle Retention Liquid (um)	0.3 $\mu$ m DOP retention (%)	Maximum Temperature (°C)	Filtration Speed(Sec)
Wintech GF/A	50-56	0.23-0.26	1.6	99.9	500	69

#### Ordering Information:

Cat No.	Size	Packaging
WIN-GFA-025	25mm	100pcs/pk
WIN-GFA-047	47mm	100pcs/pk
WIN-GFA-055	55mm	100pcs/pk
WIN-GFA-070	70mm	100pcs/pk
WIN-GFA-090	90mm	100pcs/pk
WIN-GFA-110	110mm	100pcs/pk
WIN-GFA-125	125mm	100pcs/pk

#### WINTECH NO.GF/B

- Thicker, greater wet strength, slower filtration speed. Industrial waste analysis
- Low absorption, limited wet strength and loading capacity

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### Specifications:

Product	Basis weight(g/m <sup>2</sup> )	Typical thickness(mm)	Particle Retention Liquid (um)	0.3 µm DOP retention (%)	Maximum Temperature (°C)	Filtration Speed(Sec)
Wintech GF/B	127-133	0.58-0.61	1	99.9	500	192

### Ordering Information:

Cat No.	Size	Packaging
WIN-GFB-025	25mm	100pcs/pk
WIN-GFB-047	47mm	100pcs/pk
WIN-GFB-055	55mm	100pcs/pk
WIN-GFB-070	70mm	100pcs/pk
WIN-GFB-090	90mm	100pcs/pk
WIN-GFB-110	110mm	100pcs/pk
WIN-GFB-125	125mm	100pcs/pk

### WINTECH NO.GF/C

- Used in LSC (liquid scintillation counting) technique fast & efficient clarification of aqueous liquid counting low to medium level of particulates.
- Used in standard filter for collection of suspended solids in potable water and natural wastes.
- Used for cell harvesting

### Specifications:

Product	Basis weight(g/m <sup>2</sup> )	Typical thickness(mm)	Particle Retention Liquid (um)	0.3 µm DOP retention (%)	Maximum Temperature (°C)	Filtration Speed(Sec)
Wintech GF/C	52-58	0.26-0.29	1.2	99.9	500	110

### Ordering Information:

Cat No.	Size	Packaging
WIN-GFC-025	25mm	100pcs/pk
WIN-GFC-047	47mm	100pcs/pk
WIN-GFC-055	55mm	100pcs/pk
WIN-GFC-070	70mm	100pcs/pk
WIN-GFC-090	90mm	100pcs/pk
WIN-GFC-110	110mm	100pcs/pk
WIN-GFC-125	125mm	100pcs/pk