

WHATMAN®	
<b>Qualitative Filters</b>	
For the use in qualitative analytical techniques to determine and identify materials rather than quantify them.	
<b>Grade No. 1: 11µm</b>	11µm – The most widely used filter paper for routine applications; Medium retention and flow rate. Frequent applications include Clarifying liquids. Traditionally this grade is used in qualitative analytical separations for precipitates such as lead sulphate, calcium oxalate (hot) and calcium carbonate.
<b>Grade No. 2: 8µm</b>	8µm – Double the thickness of Grade 1, with finer particle retention; more precipitate can be held without clogging. In addition to general filtration in the 8µm particle size range, the extra absorbency can be utilized to hold soil nutrient in plant growth trials.
<b>Grade No. 4: 20-25µm</b>	20-25µm - Extremely fast filtering with excellent retention of coarse particles and gelatinous precipitates such as ferric hydroxide and aluminum hydroxide. Very useful as a rapid filter for routine cleanup of biological fluids or organic extracts during analysis
<b>Quantitative Filters</b>	
Are designed for gravimetric analysis and the preparation of samples for instrumental analysis.	
<b>Ashless: 0.07% Ash Maximum</b> - very pure filters ideal for a wide range of critical analytical filtration procedures analysis	
<b>Grade 40</b>	- Medium speed and retention. Typical applications include gravimetric analysis for numerous components in cement, clays, iron and steel products; as a primary filter for separating solid matter from aqueous extracts in general soil analysis, and as a pure analytical grade clean-up filter for solutions prior to AA spectro-photometry
<b>Grade 41</b>	- The fastest ashless filter paper, recommended for analytical procedures involving coarse particles or gelatinous precipitates - e.g. iron or aluminum hydroxides.
<b>Grade 42</b>	- A world standard for critical gravimetric analysis with the finest particle retention of all Whatman cellulose filter papers. Typical analytical precipitates include barium sulphate, metastannic acid and finely precipitated calcium carbonate.
<b>Hardened Ashless</b> - 0.006% ash maximum - acid hardened to give high wet strength and chemical resistance with extremely low ash content.	
<b>Grade 541</b>	- High filtration speed for the retention of large particles and gelatinous precipitates in acid or alkaline solutions. Typical applications include protein determinations, cement analysis and the determination of fibre in animal foodstuffs.
<b>Glass Microfibre Circles</b>	
<b>GF/A: 1.6µm</b>	1.6µm - Offers fine particle retention and high flow rate, as well as a good loading capacity. Recommended for gravimetric determination of airborne particles, stack sampling and absorption methods of air pollution monitoring.
<b>Grade GF/C: 1.2µm</b>	1.2µm - The standard filter for the collection of suspended solids in potable water and natural and industrial wastes. Widely used for cell harvesting, liquid scintillation counting and binding assays where more loading capacity is required.

## Paper, Filter

### Qualitative Circles

#### Grade No. 1: 11µm

Whatman®

Product Code	Description	Unit
FPW1001042	Ø (mm) 42.5	100/Box
FPW1001055	Ø (mm) 55	100/Box
FPW1001070	Ø (mm) 70	100/Box
FPW1001090	Ø (mm) 90	100/Box
FPW1001110	Ø (mm) 110	100/Box
FPW1001125	Ø (mm) 125	100/Box
FPW1001150	Ø (mm) 150	100/Box
FPW1001185	Ø (mm) 185	100/Box
FPW1001240	Ø (mm) 240	100/Box
FPW1001270	Ø (mm) 270	100/Box
FPW1001320	Ø (mm) 320	100/Box

#### Grade No. 2: 8µm

Product Code	Description	Unit
FPW1002055	Ø (mm) 55	100/Box
FPW1002090	Ø (mm) 90	100/Box
FPW1002110	Ø (mm) 110	100/Box
FPW1002125	Ø (mm) 125	100/Box
FPW1002150	Ø (mm) 150	100/Box
FPW1002185	Ø (mm) 185	100/Box



## Paper, Filter, Cont.

Qualitative Circles

Grade No. 4: 20-25µm

Whatman®



Product Code	Description	Unit
FPW1004055	Ø (mm) 55	100/Box
FPW1004070	Ø (mm) 70	100/Box
FPW1004090	Ø (mm) 90	100/Box
FPW1004110	Ø (mm) 110	100/Box
FPW1004125	Ø (mm) 125	100/Box
FPW1004150	Ø (mm) 150	100/Box
FPW1004185	Ø (mm) 185	100/Box

Quantitative, Ashless Circles

Grade No. 40

Whatman®



Product Code	Description	Unit
FPW1440055	Ø (mm) 55	100/Box
FPW1440070	Ø (mm) 70	100/Box
FPW1440125	Ø (mm) 125	100/Box
FPW1440150	Ø (mm) 150	100/Box

Grade No. 41



Product Code	Description	Unit
FPW1441055	Ø (mm) 55	100/Box
FPW1441090	Ø (mm) 90	100/Box
FPW1441125	Ø (mm) 125	100/Box
FPW1441150	Ø (mm) 150	100/Box

Grade No. 42



Product Code	Description	Unit
FPW1442055	Ø (mm) 55	100/Box
FPW1442070	Ø (mm) 70	100/Box
FPW1442090	Ø (mm) 90	100/Box
FPW1442110	Ø (mm) 110	100/Box
FPW1442125	Ø (mm) 125	100/Box
FPW1442150	Ø (mm) 150	100/Box

Quantitative, Hardened Ashless Circles

Grade No. 541

Whatman®



Product Code	Description	Unit
FPW1541055	Ø (mm) 55	100/Box
FPW1541070	Ø (mm) 70	100/Box
FPW1541090	Ø (mm) 90	100/Box
FPW1541110	Ø (mm) 110	100/Box
FPW1541125	Ø (mm) 125	100/Box
FPW1541150	Ø (mm) 150	100/Box
FPW1541185	Ø (mm) 185	100/Box

Glass Microfibre Circles

Grade GF/A

Whatman®



Product Code	Description	Unit
FPW1820042	Ø (mm) 42.5	100/Box
FPW1820047	Ø (mm) 47	100/Box
FPW1820055	Ø (mm) 55	100/Box
FPW1820090	Ø (mm) 90	100/Box
FPW1820110	Ø (mm) 110	100/Box
FPW1820125	Ø (mm) 125	100/Box

Grade GF/C

Product Code	Description	Unit
FPW1822042	Ø (mm) 42.5	100/Box
FPW1822047	Ø (mm) 47	100/Box
FPW1822055	Ø (mm) 55	100/Box
FPW1822070	Ø (mm) 70	100/Box
FPW1822090	Ø (mm) 90	100/Box
FPW1822110	Ø (mm) 110	100/Box
FPW1822125	Ø (mm) 125	100/Box

## Paper, Filter, Cont.

Grade No 1, Chromatography

Whatman®

Product Code	Description	Unit
FPWC20	CHR. 200 x 200mm	100/Box



## Paper, Filter

Qualitative Circles

Grade No. 1, Flow Rate - Medium



Product Code	Description	Unit
FP07-102001	Ø (mm) 70	100/Box
FP09-102001	Ø (mm) 90	100/Box
FP11-102001	Ø (mm) 110	100/Box
FP12-102001	Ø (mm) 125	100/Box
FP15-102001	Ø (mm) 150	100/Box
FP18-102001	Ø (mm) 180	100/Box
FP24-102001	Ø (mm) 240	100/Box



Quantitative, Ashless Circles

Grade No. 40, Flow Rate - Medium



Product Code	Description	Unit
FP07-202040	Ø (mm) 70	100/Box
FP09-202040	Ø (mm) 90	100/Box
FP11-202040	Ø (mm) 110	100/Box
FP12-202040	Ø (mm) 125	100/Box
FP15-202040	Ø (mm) 150	100/Box
FP18-202040	Ø (mm) 180	100/Box



Grade No. 41, Flow Rate - Fast

Product Code	Description	Unit
FP07-201041	Ø (mm) 70	100/Box
FP09-201041	Ø (mm) 90	100/Box
FP11-201041	Ø (mm) 110	100/Box
FP12-201041	Ø (mm) 125	100/Box
FP15-201041	Ø (mm) 150	100/Box
FP18-201041	Ø (mm) 180	100/Box

Grade No. 42, Flow Rate - Slow

Product Code	Description	Unit
FP07-203042	Ø (mm) 70	100/Box
FP09-203042	Ø (mm) 90	100/Box
FP11-203042	Ø (mm) 110	100/Box
FP12-203042	Ø (mm) 125	100/Box
FP15-203042	Ø (mm) 150	100/Box
FP18-203042	Ø (mm) 180	100/Box



Double Ring  
**Your Filtration  
Solution!**



## Battery Holders



Product Code	Description	Unit
DSS6112	2 x 'AA'	Each
DSS6114	4 x 'AA'	Each
DSS6103	1 x 'C'	Each
DSS6105	2 x 'C'	Each
BATHOLD	1 x 'D'	Each



## Battery Snap



Product Code	Description	Unit
DSS6100	9V Snap-Type Battery Holder	5/Pk



## Bell, Electric



Product Code	Description	Unit
EBELL3	3V DC, 75mm Ø Bell	Each



## Blowpipe

Stainless Steel, Curved



Product Code	Description	Unit
BLOWPIPE	200mm	Each



## Bob Pendulums

Brass with Hook



Product Code	Description	Unit
BOBPEN13	Ø (mm) 13	Each
BOBPEN19	Ø (mm) 19	Each
BOBPEN25	Ø (mm) 25	Each



## Boyle's Law Apparatus

Syringe Type with Air Bleed Cord



Product Code	Description	Unit
IECMF0350-001	18 x 10 x 10cm	Each



## Calorimeters

Calorimeter Cups

- Seamless polished copper cup with rolled rim
- Nickel plate finish



Product Code	Description	Unit
IECHL0810-001	50 Ø x 75mm, 65g	Each
IECHL0812-001	75 Ø x 100mm, 110g	Each



Calorimeter Cups, Inner & Outer Pair with Lid & Stirrer

- Seamless polished copper cups with rolled rims
- Includes plastic lid with thermometer hole and simple wire stirrer

Product Code	Description	Unit
IECHL0820-001	51 Ø x 77mm, 65g 76 Ø x 103mm, 110g	Pair



Calorimeter, Joule's

- For determination of Joule's Equivalent.
- Comes with 2 Ohms resistance coil, 4mm sockets for connection to 6V and insulated stirrer.

Product Code	Description	Unit
CALERIMTR	50 Ø x 75mm, 135g	Each

