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FILTER PAPERS

The filter paper used in laboratory is one of the common lab consumables. It is normally round in shape and made from cotton fiber and used to filter components. In chemistry, we call the separation of solids and liquids filtration. In infiltration operation, filter paper is indispensable to filter out solids and liquids.

FILTER PAPER

QUALITATIVE

QUANTITATIVE



Qualitative Filter Paper : Qualitative filter paper is often used in qualitative analysis. The reason is that the qualitative filter paper produces from high quality cotton linters.

Quantitative Filter paper: The quantitative one is dealt with the particular process, which makes the paper not react with the common chemicals, in the production. As a result, it produces fewer impurities and the filter paper used in laboratory quantitative analysis.

Qualitative Filter Papers

TLG® Qualitative Filter Papers - No. 1

- Material: Cellulose
- Porosity: Medium
- Surface: Smooth
- Particle Retention in Liquid: 11µm
- Herzberg Filtration Speed: 173sec/100mL (or ASTM: 40sec)
- Nominal Thickness: 170 ± 10µm
- Nominal Weight: 92g/m²
- Nominal Ash Content : 0.06%
- Package Size: 100 Pieces



Catalog Number	Diameter	Pack Type
CS-101-30	30 mm	100
CS-101-32	32 mm	100
CS-101-42	42.5 mm	100
CS-101-55	55 mm	100
CS-101-70	70 mm	100
CS-101-90	90 mm	100
CS-101-110	110 mm	100
CS-101-125	125 mm	100
CS-101-150	150 mm	100

TLG® Qualitative Filter Papers - No. 2

- > Material: Cellulose
- > Porosity: Medium Fine
- > Surface: Smooth
- > Particle Retention in Liquid: 8µm
- > Herzberg Filtration Speed: 262sec/100mL (or ASTM: 55sec)
- > Nominal Thickness: 200 ± 10µm
- > Nominal Weight: 110g/m²
- > Nominal Ash Content : 0.06%
- > Package Size: 100 Pieces



Catalog Number	Diameter	Pack Type
CS-102-42	42.5 mm	100
CS-102-47	47 mm	100
CS-102-55	55 mm	100
CS-102-70	70 mm	100
CS-102-90	90 mm	100
CS-102-110	110 mm	100
CS-102-125	125 mm	100
CS-102-150	150 mm	100

TLG® Qualitative Filter Papers - No. 3

- > Material: Cellulose
- > Porosity: Medium Fine
- > Surface: Smooth, Grained
- > Particle Retention in Liquid: 6µm
- > Herzberg Filtration Speed: 338sec/100mL (or ASTM: 90sec)
- > Nominal Thickness: 370 ± 10µm
- > Nominal Weight: 165g/m²
- > Nominal Ash Content : 0.06%
- > Package Size: 100 Pieces



Catalog Number	Diameter	Pack Type
CS-103-23	23 mm	100
CS-103-55	55 mm	100
CS-103-70	70 mm	100
CS-103-90	90 mm	100
CS-103-110	110 mm	100
CS-103-125	125 mm	100
CS-103-150	150 mm	100

TLG® Qualitative Filter Papers - No. 4

- > Material: Cellulose
- > Porosity: Coarse
- > Surface: Smooth
- > Particle Retention in Liquid: 25µm
- > Herzberg Filtration Speed: 50sec/100mL (or ASTM: 12sec)
- > Nominal Thickness: 200 ± 10µm
- > Nominal Weight: 90g/m²
- > Nominal Ash Content : 0.06%
- > Package Size: 100 Pieces



Catalog Number	Diameter	Pack Type
CS-104-27	27 mm	100
CS-104-42	42.5 mm	100
CS-104-47	47 mm	100
CS-104-55	55 mm	100
CS-104-70	70 mm	100
CS-104-90	90 mm	100
CS-104-110	110 mm	100
CS-104-125	125 mm	100
CS-104-150	150 mm	100
CS-104-185	185 mm	100
CS-104-240	240 mm	100

TLG® Qualitative Filter Papers - No. 5

- > Material: Cellulose
- > Porosity: Fine
- > Surface: Smooth, Dense
- > Particle Retention in Liquid: 2.5µm
- > Herzberg Filtration Speed: 1480sec/100mL (or ASTM: 250sec)
- > Nominal Thickness: 210 ± 10µm
- > Nominal Weight: 100g/m²
- > Nominal Ash Content : 0.06%
- > Package Size: 100 Pieces



Catalog Number	Diameter	Pack Type
CS-105-27	27 mm	100
CS-105-42	42.5 mm	100
CS-105-47	47 mm	100
CS-105-55	55 mm	100
CS-105-70	70 mm	100
CS-105-90	90 mm	100
CS-105-110	110 mm	100
CS-105-125	125 mm	100
CS-105-150	150 mm	100

Ashless Quantitative Filter Papers

There are two groups of ashless paper: Grades 40 to 44 have 0.007% ash maximum, and the variations of grade 589 have 0.01% ash maximum, making both suitable for critical analytical uses.

TLG® Ashless Quantitative Filter Papers - No. 40

Grade 40 is the classic general purpose ashless paper, with medium speed and retention. Some typical applications include:

- Gravimetric analysis for substances/contaminants in cements, clays, iron, and steel.
- Separating solid matter in general soil analysis
- Quantitation of sediments in milk
- Analytical grade clean-up for atomic absorbance spectroscopy
- Collection of trace elements and radionuclides from the atmosphere

Salient Features

- Material: High Quality Cotton Linters
- Porosity: Medium
- Particle Retention in Liquid: 8µm
- Herzberg Filtration Speed: 335sec/100mL (or ASTM: 75sec)
- Nominal Thickness: 190 ± 10µm
- Nominal Weight: 90g/m²
- Nominal Ash Content : 0.007%
- Package Size: 100 Pieces



Catalog Number	Diameter	Pack Type
CS-140-42	42.5 mm	100
CS-140-47	47 mm	100
CS-140-55	55 mm	100
CS-140-70	70 mm	100
CS-140-90	90 mm	100
CS-140-110	110 mm	100
CS-140-125	125 mm	100
CS-140-150	150 mm	100

TLG® Ashless Quantitative Filter Papers - No. 41

This is the fastest quantitative ashless paper. It's suited for filtering coarse particles and gelatinous precipitates. It also performs well in quantitative air pollution analyses, oil pollution analysis.

Salient Features

- Material: High Quality Cotton Linters
- Porosity: Coarse
- Particle Retention in Liquid: 20-25µm
- Herzberg Filtration Speed: 68sec/100mL (or ASTM: 12sec)
- Nominal Thickness: 185 ± 10µm
- Nominal Weight: 92g/m²
- Nominal Ash Content : 0.007%
- Package Size: 100 Pieces



Catalog Number	Diameter	Pack Type
CS-141-42	42.5 mm	100
CS-141-47	47 mm	100
CS-141-55	55 mm	100
CS-141-70	70 mm	100
CS-141-90	90 mm	100
CS-141-110	110 mm	100
CS-141-125	125 mm	100
CS-141-150	150 mm	100

TLG® Ashless Quantitative Filter Papers - No. 42

The finest particle retention of all filter papers makes Grade 42 exceptional for critical gravimetric analysis. Typical precipitates filtered include:

- > Barium sulfate
- > Metastannic acid
- > Finely precipitated calcium carbonate

Salient Features

- > Material: High Quality Cotton Linters
- > Porosity: Fine
- > Particle Retention in Liquid: 2.5µm
- > Herzberg Filtration Speed: 2040sec/100mL (or ASTM: 240sec)
- > Nominal Thickness: 180 ± 10µm
- > Nominal Weight: 100g/m²
- > Nominal Ash Content : 0.007%
- > Package Size: 100 Pieces



Catalog Number	Diameter	Pack Type
CS-142-42	42.5 mm	100
CS-142-47	47 mm	100
CS-142-55	55 mm	100
CS-142-70	70 mm	100
CS-142-90	90 mm	100
CS-142-110	110 mm	100
CS-142-125	125 mm	100
CS-142-150	150 mm	100

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