

DOMINIQUE DUTSCHER SAS

Whatman™ Quantitative filter papers, ashless, Grade 40

Ashless filter paper with medium speed and retention, ideal for quantitative analysis and general-purpose filtration.

Overview

Whatman™ Grade 40 high-purity filters from Cytiva are general-purpose papers for quantitative analysis. Grade 40 filters are suitable for a variety of analytical filtration applications.

- High-purity filters contain 0.007% maximum ash content
- Medium nominal particle retention rating of 8 µm
- Medium filtration speed (Herzberg 340 s)
- Particularly useful for gravimetric analysis

Applications for high-purity Grade 40 filters

High-purity filters support accurate analysis in applications sensitive to very low levels of background contamination and in gravimetric analysis where ash content might affect weight measurements of combusted samples. Cytiva's high-purity Whatman™ Grade 40 ashless paper is suited to:

- Soil analysis, when separating solid matter from aqueous extracts
- Quantitative determination of milk sediment
- Use as a clean-up filter for solutions prior to atomic absorption (AA) spectrometry
- Analysis of constituent components in cements, clays, iron, and steel products
- Collection of trace elements and radionuclides from the atmosphere

Cytiva offers a range of Whatman™ ashless filter paper for your gravimetric analysis needs.

Product specifications

Whatman™ Grade 40 quantitative filter paper, ashless for pollution analysis, 47 mm circle (100/Pk)

Catalog code	1440-047
Diameter	47 mm
Pack size	100/Pk
Format	Circles
Grade	Grade 40
Material	High-quality cotton linters
Basis weight	95 g/m²
Nominal thickness	210 µm
Alpha cellulose content min.	≥98%
Application	Designed for gravimetric alysis and the preparation of samples for instrumental alysis. ; Gravimetric alysis for numerous components in cements, clays, iron, and steel products. ; As a primary filter for separating solid matter from aqueous extracts in general soil alysis. ; Quantitative determition of sediments in milk and as a pure alytical grade clean-up filter for solutions prior to AA spectrometry. ; Also used as a high-purity filter in the collection of trace elements and radionuclides from the atmosphere.
Ash content %	0.007%
Nominal air flow rate	21 s/100 mL/in²
Type	Ashless
Typical particle retention in liquid	8 µm
Typical trace element levels	Aluminium 2.5 µg/g ; Antimony <0.5 µg/g ; Arsenic <0.5 µg/g ; Barium <0.5 µg/g ; Boron <1 µg/g ; Calcium 8.3 µg/g ; Chromium 1.5 µg/g ; Copper 2 µg/g ; Iron 12 µg/g ; Lead <0.5 µg/g ; Magnesium 4 µg/g ; Manganese <0.5 µg/g ; Mercury <0.5 µg/g ; Potassium 2.3 µg/g ; Silicon 6.2 µg/g ; Sodium 16.8 µg/g ; Zinc 64.5 µg/g
Typical water flow rate	25 ml/min at 45 psi (3.1 bar)

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