

DOMINIQUE DUTSCHER SAS

Whatman™ Quantitative Filter Papers, Hardened Ashless, Grade 542

Cytiva's Whatman Grade 542 filters are acid hardened to allow high retention of fine precipitates in applications such as metal determinations and hydroxide collection.

Overview

Cytiva's Whatman Grade 542 filters are acid hardened to allow high retention of fine precipitates in applications such as metal determinations and hydroxide collection.

- High wet-strength
- Acid-hardened for resistance to strong acid and alkali solutions
- Nominal particle retention rating of 2.7 µm
- Herzberg filtration speed of 2510 s
- Extremely low ash content (0.006% ash maximum)

Along with Grade 542 cellulose filter paper, the Whatman range of hardened quantitative papers from Cytiva's business includes fast Grade 541 and general-purpose Grade 540 filters. All three grades are designed for use in quantitative analysis with strong acid/alkali solutions.

Slow flow rate filters for gravimetric determination

Hardened Grade 542 quantitative papers enable high retention of fine particles in chemically harsh conditions. When acting as a gravimetric filter, this cellulose filter paper is therefore well suited for use in capturing fine precipitates in applications such as metal determinations and hydroxide collection.

Looking for a filter paper, membrane filter, or syringe filter? Let Cytiva help you find the optimal filter for your needs to ensure reliable analysis.

Product specifications

Whatman™ Grade 542 quantitative filter paper, ashless, for fine precipitate, 90 mm circles (100/Pk)

Catalog code	1542-090
Diameter	90 mm
Pack size	100/Pk
Format	Circles
Grade	Grade 542
Material	High-quality cotton linters
Basis weight	96 g/m²
Nominal thickness	150 µm
Alpha cellulose content min.	≥98%
Application	Used in gravimetric metal determitions.
Ash content %	0.005%
Nominal air flow rate	64 s/100 mL/in²
Type	Hardened Ashless
Typical particle retention in liquid	2.7 µm
Typical trace element levels	Aluminium 3.4 µg/g ; Antimony <0.5 µg/g ; Arsenic <0.5 µg/g ; Barium <0.5 µg/g ; Boron <1 µg/g ; Calcium 14.7 µg/g ; Chromium 1.1 µg/g ; Copper 8.2 µg/g ; Iron 16.3 µg/g ; Lead <0.5 µg/g ; Magnesium 3.3 µg/g ; Manganese <0.5 µg/g ; Mercury <0.5 µg/g ; Potassium 3.7 µg/g ; Silicon <6 µg/g ; Sodium 17 µg/g ; Zinc 87.8 µg/g
Typical water flow rate	13 ml/min at 45 psi (3.1 bar)
Color	Grey
Weight	110 g/m²

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