


DOMINIQUE DUTSCHER SAS

**Whatman™ Quantitative Filter Paper, Hardened Low Ash, Grade 50**

Grade 50 quantitative hardened low ash filter paper is highly glazed to enable recrystallization of very fine precipitates using Büchner funnel or Hirsch funnel filtration.

**Overview**

Whatman Grade 50 quantitative hardened low ash filter paper is highly glazed to enable recrystallization of very fine precipitates using Büchner funnel or Hirsch funnel filtration.

This hard, very thin, high wet-strength Grade 50 quantitative filter paper withstands wet handling and precipitate removal by scraping. With very minimal fiber shedding, they are an especially good choice for use as carriers in integrated circuits.

# Slow filtration for strong retention of very fine particles

- Thinner filter design (average thickness 115 µm) than most Büchner filter papers
- Nominal particle retention of 2.7 µm
- Slow flow rates (Herzberg filtration speed 2685 s)
- High purity and low ash content (0.015% ash maximum)
- Acid-treated for high wet-strength and chemical resistance
- Hardened to minimize fiber shredding

Whatman low ash hardened filter paper for quantitative analysis is available in three grades. All three are designed for use in gravity and vacuum suction filtration in Buchner and Hirsch funnels. Grade 50 is also available in Smear Tab format for wipe testing, such as surface testing for radionuclide contamination.

All Whatman low ash hardened filter papers can be customized for an exact fit.

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 50 quantitative filter paper, hardened low ash, Thin, 110 mm circle (100/Pk)**

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| Catalog code | 1450-110 |
| Diameter | 110 mm |
| Pack size | 100/Pk |
| Format | Circles |
| Grade | Grade 50 |
| Material | High-quality cotton linters |
| Basis weight | 96 g/m² |
| Nominal thickness | 115 µm |
| Alpha cellulose content min. | ≥98% |
| Application | For qualitative or quantitative filtrations requiring vacuum assistance on Büchner or 3-piece filter funnels. |
| Ash content % | 0.015% |
| Nominal air flow rate | 144 s/100 mL/in² |
| Type | Hardened low ash |
| Typical particle retention in liquid | 2.7 µm |
| Typical water flow rate | 10 ml/min at 45 psi (3.1 bar) |

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