



ASHLESS FILTER PAPERS FOR QUANTITATIVE ANALYSIS

Ashless filters (approx. 0.004 %), recommended for quantitative analysis and routine gravimetric tests.

- Made of super-refined cotton linters and cellulose; acid-washed.
- α -cellulose content above 95 %.
- For analytical applications, routine quantitative and /or gravimetric procedures.

Gravimetric Analysis. Type of quantitative analysis that involves the precipitation of a compound that can be weighed and analysed once dried.

For critical filtering processes, we recommend hardened, ashless filters, which have greater resistance to both humidity and aggressive chemical components (Grade: FP1505 - FP1506 - FP1507).

TECHNICAL SPECIFICATIONS

Grade	Properties	Filtration Herzberg s	Retention of particles μm	Weight g/m^2	Thickness mm	Ash** %
FP589/1 black	Fast	50	12-25	79	0.19	0.004
FP589/2 white	Medium-fast	140	4-12	85	0.18	0.004
FP589/4 yellow	Medium-fast / Low-fat	170	4-7	81	0.17	0.004
FP589/5 red	Medium-slow	450	2-4	84	0.17	0.004
FP589/6 green	Slow/Thin	900	2-4	74	0.15	0.004
FP589/3 blue	Slow	750*	<2	84	0.16	0.004

* Measured with 100 mm water column instead of 50 mm

** Average value

APPLICATIONS

Ref. FP589/1 – black:

- Determination of ash content and PCB contamination in foodstuffs according with §35 LMBG*.
- Processing (ashing) fruit juice samples for photometric determinations (e.g. phosphate) according with §35 LMBG*.
- Coarse flocs and gelatinous precipitates: $\text{Fe}(\text{OH})_3$, $\text{Al}(\text{OH})_3$, $\text{Cr}(\text{OH})_3$, CuS , Bi_2S_3 , SiO_2 .
- Determination of heavy metals in water analysis.

* German law for food and consumer products

Ref. FP589/2 – white:

- Determination of sand content and of grade of flour in foodstuffs.
- $\text{Mg}(\text{NH}_4)\text{PO}_4$, CaC_2O_4 (hot precipitates).
- Analysis of alkaline earth carbonates.
- Cement industry: Blaine test (regulations UNE 80-112-91 and EN-196-6) and other chemical analyses performed on cements.

Ref. FP589/4 – yellow:

- For medium fine crystalline precipitates.
- Specially for determination of fat.

Ref. FP589/5 – red:

- CaC_2O_4 , BaCrO_4 , PbSO_4 (cold precipitates).
- Determination of fats and oils in water (floatable based on the trichlorofluorethane method or totally based on partition-gravimetric method).
- General gravimetric analysis for many components in cements, mud, iron and steel products.
- Soil analysis: basic filtering process for the separation of solid particles from water extractions.
- Determination sulphates, carbonates and organic materials.

Ref. FP589/6 – green:

- For fine crystalline precipitates.
- CaC_2O_4 , PbSO_4 , BaSO_4 (hot precipitates).

Ref. FP589/3 – blue:

- For very fine crystalline precipitates.
- BaSO_4 (hot precipitates), PbSO_4 , ZnS , NiS .
- Oils and fats analysis of animal or vegetable origin: determination of the content of insoluble impurities.
- Treatment of drinking water and residuals: determination of chemical elements and some radioactive substances by using gravimetric, photometric, colorimetric and precipitation methods.
- Soil analysis (soluble sulphates).

ORDERING INFORMATION

Grade	FP589/1 Fast	FP589/2 Medium-fast	FP589/4 Medium-fast Low-fat	FP589/5 Medium-slow	FP589/6 Slow Thin	FP589/3 Slow
12.5 mm	–	DP58920125*	–	–	–	–
40.5 mm	–	DP58920405	–	–	–	–
47 mm	DP5891047	DP5892047	DP5894047	DP5895047	DP5896047	DP5893047
55 mm	DP5891055	DP5892055	DP5894055	DP5895055	DP5896055	DP5893055
70 mm	DP5891070	DP5892070	DP5894070	DP5895070	DP5896070	DP5893070
90 mm	DP5891090	DP5892090	DP5894090	DP5895090	DP5896090	DP5893090
110 mm	DP5891110	DP5892110	DP5894110	DP5895110	DP5896110	DP5893110
125 mm	DP5891125	DP5892125	DP5894125	DP5895125	DP5896125	DP5893125
150 mm	DP5891150	DP5892150	DP5894150	DP5895150	DP5896150	DP5893150
185 mm	DP5891185	DP5892185	DP5894185	DP5895185	DP5896185	DP5893185
240 mm	DP5891240	DP5892240	DP5894240	DP5895240	DP5896240	DP5893240
460 x 570 mm	58914657	58924657	58944657	58954657	58964657	58934657
580 x 580 mm	58915858	58925858	58945858	58955858	58965858	58935858

Presentation: 100 units / box

*Presentation: 1.000 units / box (for specially Blaine Test)

Other sizes available on request.