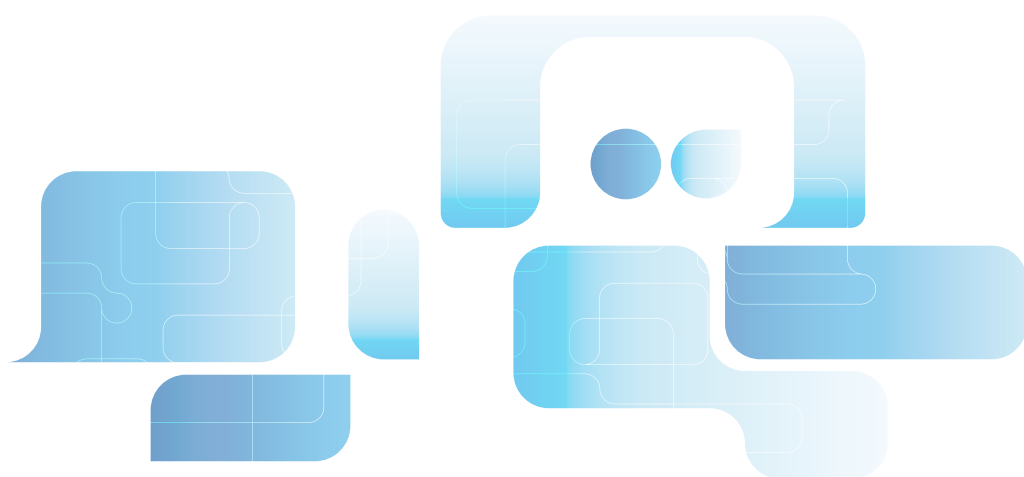




APPLICATION GUIDELINE





Application Guideline



Food Safety:

When it comes to quality assurance and raw material control, knowledge of ingredients is absolutely essential. Some of our high-quality filter grades have proven to be effective for analysis and strict monitoring work. Here, you will also find filter grades whose purity means they are suitable for process filtering foodstuffs.

- Fruit juice and nectar
- Wine and sparkling wine
- Beer, malt and beer-based beverages
- Edible and technical oils
- Milk and dairy products
- Meat and meat products

Agriculture:



Detecting and determining nutrients and trace elements is essential for optimizing crop and livestock growth. Our filter papers' average ash content has been adjusted to meet these high standards in chemical analysis.

- Soil and fertiliser
- Animal feed
- Seed

Chemicals:



Every chemical reagent and pharmaceutical substance is only as good as the quality of the product. Maximum quality standards are among the key success factors for any company operating in the chemical and pharmaceutical sector. GVS supplies the purest quantitative filter papers.

- Quality control
- Detergents
- Oil refineries
- Cement analysis

Environmental analysis:



An optimum filter material simplifies and supports contamination-free sampling of suspended particles in water and particles in emissions or chemicals. Thanks to their consistent performance, our high-purity filter papers are ideal for situations that call for unambiguous analytical results.

- Air pollution
- Emission control
- Water
- Waste products

Food safety

Fruit juice and nectar



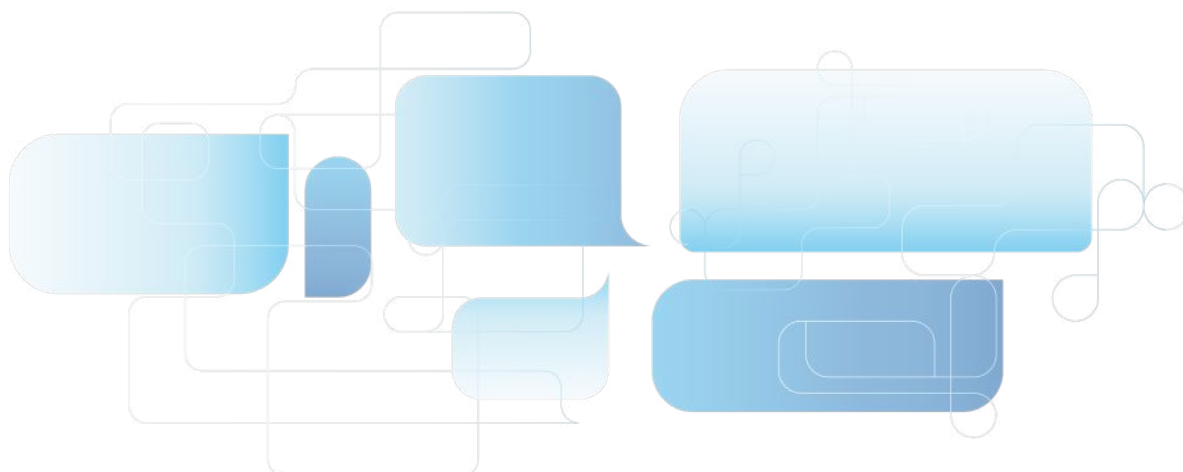
Target application

- Analysis of ingredients, contaminants purity for food, feed and Utensils.
- Particle separation and clarification before optical measurements
- Sample preparation before sensitive analyses such as HPLC

Process filtration

- The pure raw materials – linters and cellulose – are used in the production of these filter papers, which allow their use with food and beverages during production.

Process	Technique	Type of Filter	Filter grade
Particle separation	Filtration (funnel/Büchner)	Filter paper for qualitative analysis, low ash according to § 64 LFBG	DXF04 DME01 DME07 DXS05
		0.2 µm cellulose acetate syringe filter 0.2 µm PES syringe filter 0.2 µm cellulose acetate membranes 0.2 µm PES membranes	Abluo 0,2 CA 0,2 PES 0,22
HPLC	Clarification of aqueous samples	0.2 µm nylon syringe filter 0.2 µm nylon membranes	Abluo 0,2 NY 0,2
		0.45 µm nylon membranes	NY 0,45
	Clarification of organic samples	0.45 µm cellulose acetate syringe filter Cellulose acetate membrane	Abluo 0,45 CA 0,45
Spectrophotometry	Clarification of samples	Glass microfibre filter	DFAAH
Preparing fruit juice samples for photometric measurements (e.g. phosphate)	Filtration (funnel/Büchner)	Quantitative filter paper	DSL45
Protection of apparatus and surfaces	Absorption	Absorbent paper with polyethylene layer	AB1505



Food safety

Wine and sparkling wine



Target application

- Analysis of ingredients, contaminants and microbiological purity for food, feed and utensils.
- Particle separation and clarification before optical measurements

Process filtration

Depending on the type of contamination, various retention rates are available for wine clarification.

Process	Technique	Type of Filter	Filter grade
Analysis of acids (sep. of malic acid)	Paper chromatography (malolactic fermentation)	Chromatography paper	CH3001 CH3003
Particle separation	Filtration (funnel)	Filter paper for qualitative analysis	DXF04 DME01 DME07 DXS05 DNS06
	Removal of turbidity	Low ash filter paper	DNS06
Removal of CO ₂ and turbidities from wine and sparkling wine	Filtration	Filter paper with Kieselguhr	DMS60
Gravimetric analysis	Measurement of ashes	Filter paper for quantitative analysis	DSL44
Determining particle load	Separation of particles in suspensions	0.8 µm cellulose nitrate membrane	CA 0,8
HPLC	Clarification of aqueous samples	0.45 µm cellulose acetate or PES syringe filter	Abluo 0,45
		0.45 µm cellulose acetate or PES membranes	CA 0,45
Colour characteristics	Clarification of grape must / wine	0.45 µm cellulose acetate syringe filter	CA 0,45
Spectrophotometry	Protection of the apparatus	0.45 µm cellulose acetate membranes	CA 0,45
Microbiological analysis	Detection of microorganisms	White, sterile cellulose nitrate membranes or mixed cellulose esters with grid, 0.2 and 0.45 µm	NC 0,2 or NC 0,45

Production	Type of Filter	Filter grade
Clarification of sweetened, viscous wines	Medium-fast, wet strength	SP3001
Papers and cards	Creped, fast, wet strength	DXF13
Filtration of unsweetened wines	Fast, wet strength	SP3001

Food safety

Beer, malt and beer-based beverages for food, feed and utensils.



Target application

- Analysis of ingredients, contaminants and microbiological purity and utensils
- Ideal for sample preparation and clarification. Useful for removing CO₂ and turbidities
- Measurement of nitrogen compounds, proteins and trace elements

Process ¹	Technique	Type of Filter	Filter grade
Removal of CO ₂ and turbidities from beer, wine and juices			DME07 DNS06
Determination of solids in wort (Labor Veritas method)			DMEFC
Filtration of lees			DME07 DMEFC
Determination of the coagulateable proteins			DME07
Determination of the grade of fermentation			DME07
Sample preparation	Filtration, funnel	Filter paper for qualitative analysis	DME01
Determination of solids and turbidity (Feld method)			DSL45
Determination of nitrogen-compounds by phosphor molybdenum precipitation			DFA41
Determination of carbohydrates by hydrolysis			DFA41
Analysis of ash content in foodstuffs			DSL45
Determination of proteins in wort and beer via MgSO ₄ precipitation			DSL45 DFA41
Drinking water: Determination of chemical elements, radioactive trace elements	Filtration, funnel	Filter paper for quantitative analysis	DSL44
Spectrophotometry	Colour of the malt	White cellulose acetate membranes with grid, 0.45 µm	CA 0,45
Microbiological analyses	Microorganism count	Black, sterile cellulose nitrate membranes with grid, 0.45 µm	NC 0,45

1. In the instructions in 'Analytical methods in breweries - Wort, Beer, beer-based Beverages', published by the Middle European Brewery Analysis Commission (MEBAK).

Food safety

Edible oil and fat



Target application

- Analysis of ingredients, contaminants and microbiological purity for food, feed and utensils.

Process filtration

- The papers listed are suitable for use in filter presses
- Clarification and purification of edible oils
- Regeneration of lubricating oils, transformer and turbine oils

Process	Technique	Type of Filter	Filter grade
Particle separation	Clarification of essential oils	Filter paper for extra-fast filtration	SP3001
Analysis in line with § 64 LFBG	Filtration (funnel)	Filter paper for qualitative analysis	DXF04
Determination of the unsaponifiable fraction in fats	Filtration (funnel)	Filter paper for qualitative analysis	DME07 DME01
Analysis of oil/fats	Fat extracting equipment	Filter paper with very high wet strength	DME52
		Filter paper for quantitative analysis	DME43
Quantifying particles using gravimetry	Separation of solids in oil with petrol ether	Absorptive, dense paper	DNS06
HPLC	Clarification of organic samples	0.2 µm nylon syringe filter 0.2 µm nylon membranes	Abluo 0,2 NY 0,2
	Filtration of mobile phase	0.45 µm nylon membranes	NY 0,45
Protection of apparatus and surfaces	Absorption	Absorbent paper with polyethylene layer	AB1505

Production	Type of Filter	Filter grade
Clarification and Purification	Fast, creped, for large particles	DXF13
Removal of particles from used oil in fryers	Very fast, wet strength	DXF13

Note: The recommended grades for edible oils can even be used for technical oils with similar viscosity and particle properties.

Food safety

Milk and milk products



Target application

- Analysis of ingredients, contaminants and inspection of microbiological purity for food, feed and utensils
- Gravimetric analysis and detection of metal particles
- Determination of whiteness

Process	Technique	Type of Filter	Filter grade
Chemical Analysis	Filtration (funnel)	Filter paper for qualitative analysis	DXF04 DME01 DME07
Gravimetric analysis		Filter paper for qualitative analysis	DXS42 DFA41 DSL45
Measurement of solids in suspensions	Filtration, weighing	Glass microfibre filter	DMEFC
HPLC	Clarification of organic samples	0.45 µm nylon syringe filter	Abluo 0,45
Microbiological analysis	Microorganism count	White, sterile cellulose nitrate membranes with grid, 0.2 and 0.45 µm	NC 0,2 or 0,45
Protection of apparatus and surfaces	Absorption	Absorbent paper with polyethylene layer	AB1505

Food safety

Meat and meat products



Target application

- Analysis of ingredients, contaminants and microbiological purity for food, feed and utensils
- Gravimetric analyses
- Measurement of fats

Process	Technique	Type of Filter	Filter grade
Gravimetry	Filtration (funnel)	Filter paper for quantitative analysis	DFA41 DSL45 DME43 DSL44
Surface protection	Absorption	Absorbent paper with polyethylene layer	AB1505

Agriculture

Soil and fertilizer

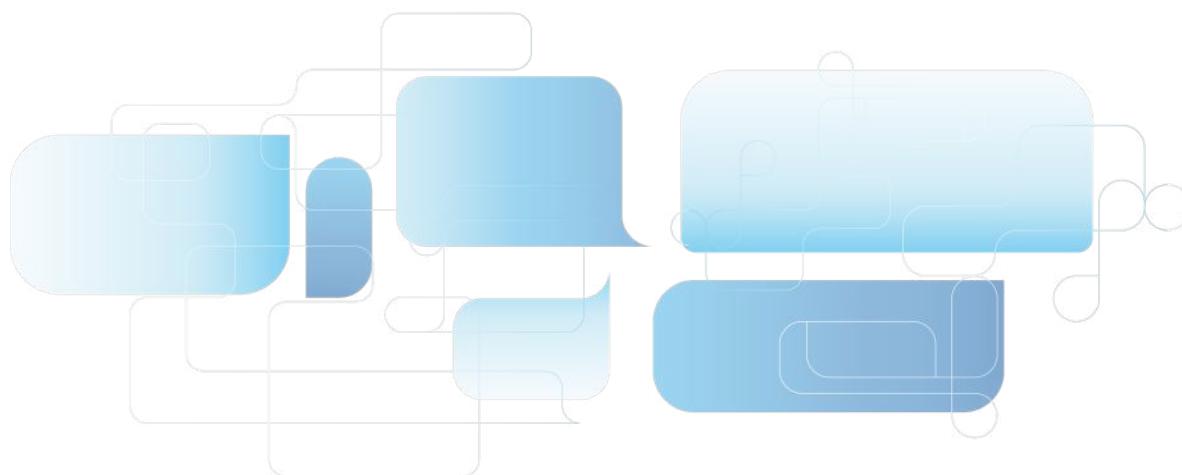


The determination of trace elements and nutrients in soil is important to optimize agricultural crops

Target application

- Analysis of nutrients, mineral nutrients, contaminants and microbiological purity
- Measurement of nitrogen, potassium and phosphate
- Ideal for detecting minerals and heavy metals

Process	Technique	Type of Filter	Filter grade
Measurement of nitrogen	Filtration (funnel)	Filter paper for quantitative analyses, ash-free	DME43
Measurement of trace elements		Filter paper for quantitative analyses, ash-free	DFA41 DSL45 DME43 DSL44 DMS40 DXS42
Free amino acids and total amino acids		Filter paper for quantitative analyses, ash-free	DFA41 DME43
Measurement of soluble sulphates	Water extraction	Filter paper for quantitative analyses, ash-free	DSL44
Determination of K and P	Egnér, Riehm and Lederle	Filter paper, low phosphates	DFA41 DSL45 DME43 DSL44 DMS40 DXS42
Measurement of solids in suspension	Filtration difference in weight	Glass microfibre filter	DMEFC
Measurement of nitrates and phosphates by HPLC	Sample preparation	Nylon, 0.45 µm, syringe filter	Abluo 0,45



Agriculture

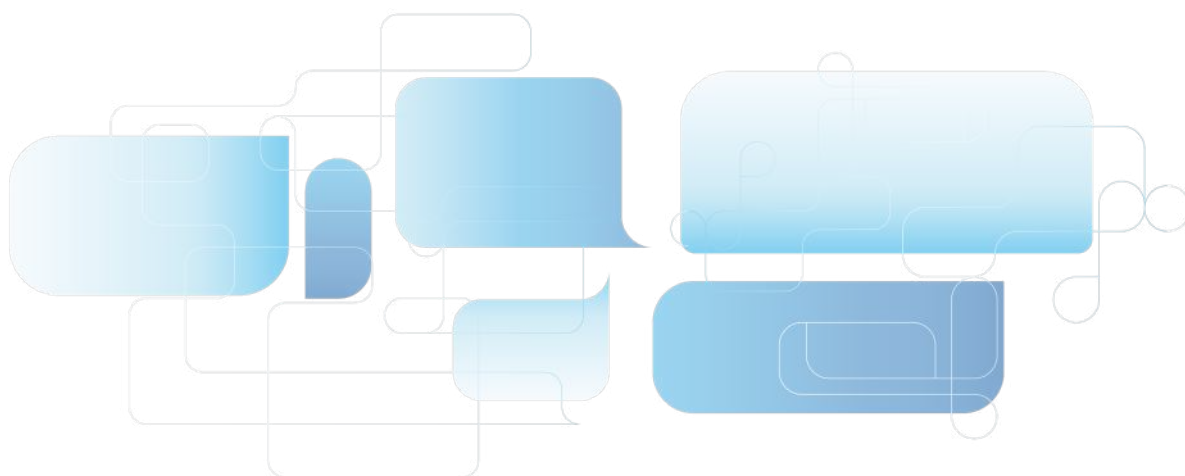
Animal feed



Target application

- Analysis of nutrients, mineral nutrients, contaminants and microbiological purity
- Ideal for the detection of trace elements like Mg, Mn, Zn, Co, Cu, Mo, and B
- Measurement of fats

Process	Technique	Type of Filter	Filter grade
Gravimetry	Filtration (funnel)	Filter paper for quantitative analysis	DFA41 DSL45 DME43 DSL44 DMS40 DXS42
Measurement of Calcium		Filter paper for quantitative analysis	DFA41
HPLC	Clarification of organic samples	Syringe filter with nylon membranes or regenerated cellulose, 0.45 µm Syringe filter PES 0.2 µm	Abluo 0,2 or 0,45
	Filtration of mobile phase	Nylon membrane, 0.45 µm	NY 0,45
Microbiological analysis	Detection of microorganisms	White cellulose nitrate membranes, 0.45 µm, gridded	NC 0,45
Separation of solids from suspensions	Filtration, weight determination	Glass microfibre filter	DMEFC
Surface protection	Absorption	Absorbent paper with polyethylene layer	AB1505



Agriculture

Germination testing

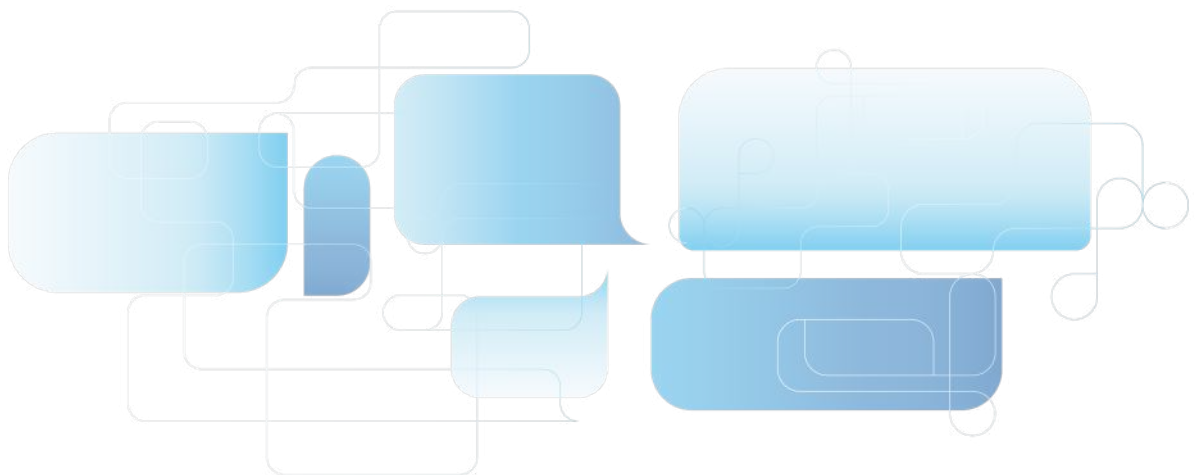


- All papers are made of pure cellulose and are free from mould, bacteria and any toxic substances which might interfere with the growth of seeds
- The highly absorbent papers store sufficient moisture for the whole duration of the test
- Their low density means the papers have a high degree of absorbency, but the roots are not able to grow into the paper
- The conductivity of the papers is lower than 40 mS/m, and the pH is between 6.0 and 7.5
- We offer a broad range of papers for the various germination methods TP, BP and PP

Target application:

The high purity of GVS germination test papers means they are very well suited for testing the germination of medium large and coated seeds (sugar beet, fodder beet, grain, sunflower, rapeseed, mustard), seeds with small, white rootlets, grain, very sensitive seeds, small seeds (flowers, grasses).

Process	Technique	Type of Filter	Filter grade
Dust control	Particle collection by dust meter	Glass microfibre filter with binder	DAM07
Prevention of penetration by roots, protection of surfaces	Absorption	Absorbent paper with polyethylene layer on one side	AB1505



Environmental analysis

Air pollution



Target application

- Ambient air monitoring
- Determination of suspended particles (SPM: suspended particulate matter) and total suspended particles (TSP: total suspended particulate matter)
- Detection of PM10 and lead (Pb)
- Monitoring the presence of pollutants in the air at different measuring points

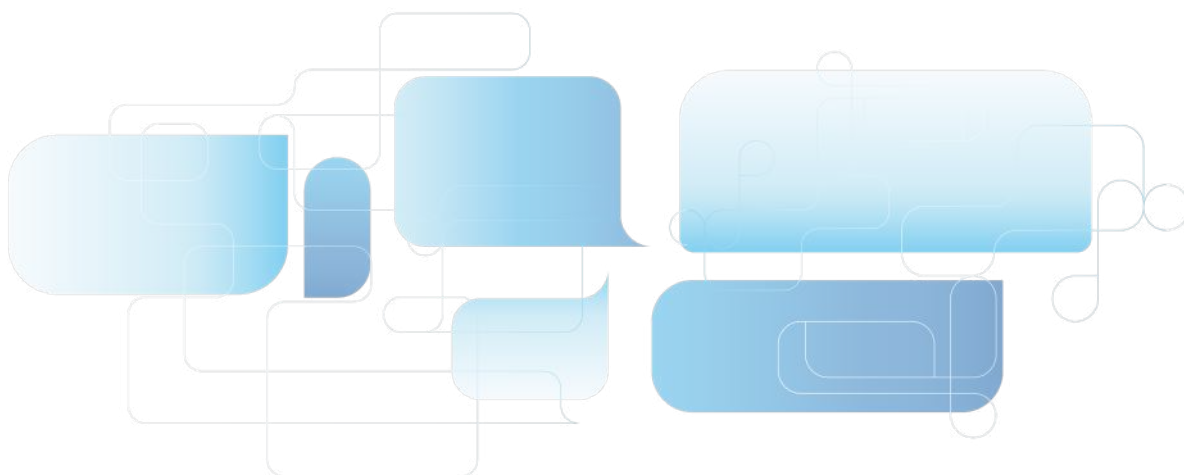
Process	Apparatus	Technique	Type of Filter	Filter grade
Sampling of total suspended particulate matter TSP ($\varnothing > 30\mu\text{m}$) ¹⁾	High volume capturer Low volume capturer Cascade impactor			DFAFA
Sampling and analysis of PM10 ($\varnothing > 10\mu\text{m}$) ¹⁾²⁾³⁾	High volume capturer Low volume capturer Cascade impactor	Gravimetry	Quartz microfibre filter, in line with US EPA and DIN EN ISO 23210	D0QF2
Sampling and analysis of PM2.5 ($\varnothing > 2.5\mu\text{m}$) ¹⁾	High volume capturer		Quartz microfibre filter, in line with US EPA and DIN EN ISO 23210 PTFE	D0QF2 or PM2.5 PTFE
Sampling and analysis of lead ⁴⁾	High volume capturer Low volume capturer Cascade impactor	Atomic absorption spectroscopy	Quartz microfibre filter, in line with US EPA and DIN EN ISO 23210	D0QF2

1) Reference methods in '40CFR50 Appx B, J, L, and G' in the 'Federal Register of the US EPA'

2) Air quality in accordance with EN12341

3) Directive 2008/50/EC, in European standard EN12341.

4) Ambient air quality in accordance with EN 14902:2005



Environmental analysis

Emission Control



Target application

- Monitoring of anthropogenic atmospheric emissions (oil refineries, power stations, burning of liquid and solid fuels, cement factories, mining industries, incinerators, iron foundries, grinders, asphalt plants, glassmakers, ceramic factories) and at stationary sources
- Measurement of dust release in workplace and production processes, exhaust fumes from private houses, and newly developed engines (for cars and other vehicles)

Process	Apparatus	Technique	Type of Filter	Filter grade
Measurement of nitrogen (gravimetry) ^{1) 2) 3) 4)}	Isokinetic probe with rear filter-holder (up to 500°C)	Filtration, weighing	Glass microfibre filter Glass fibre thimbles	DFAFA
	Isokinetic probe with front filter-holder (up to 900°C)		Quartz microfibre filter Glass fibre thimbles	D0QF2
Measurement of inorganic lead ⁵⁾	Isokinetic probe with rear filter-holder (up to 500°C)	Atom absorption spectroscopy	Glass microfibre filter Glass fibre thimbles	DFAFA
Measurement of metals ⁶⁾	Isokinetic probe with rear filter-holder (up to 500°C)		Glass microfibre filter Glass fibre thimbles	DFAFA
	Isokinetic probe with front filter-holder (up to 900°C)		Quartz microfibre filter Glass fibre thimbles	D0QF2
Deposition of radioactive aerosols	Filtering instrument	Filtration, Scintillation	Glass microfibre filter, retention capability < 1µm	DFAAH
Monitoring the combustion air	Filtering instrument	Filtration, weighing	Glass microfibre filter	DAM07 DAM30
Emission test/engine development ⁷⁾	Automatic air filter units, air analysers with filter rolls	Filtration + optical evaluation	Medium-fast filter paper, small particle retention, white	DME07

1) EPA 5

2) EPA 17

3) UNE ISO 9096

4) EN 13284

5) EPA 12

6) EPA 29

7) Stationary emissions sources. Optical on-site analysis

Environmental analysis

water



Target application

- Gravimetric analyses of organic and inorganic contaminants in water and waste water
- Monitoring microbiological quality of drinking water
- Determination of total dry residue
- Determination of dissolved organic carbon (DOC) and total organic carbon (TOC)

Process	Technique	Type of Filter	Filter grade
Sample preparation	Clarification	Qualitative filter paper	DME01
Total dry residue, ash residue ^{2) 3)}	Filtration, weighing	Glass microfibre	DFAAH
		Qualitative filter paper	DSL45
Measurement of solids in suspensions after drying at 105°C ^{1) 2) 15)}	Filtration, weighing	Glass microfibre	DMEFC DFAAH
Measurement of the total remainder after drying at 180°C ^{5) 6)}			DMEFC DFAAH
Solids and volatiles after incineration at 550°C ⁷⁾			DFAFA
Suspended particles ⁸⁾			DMEFC DFAAH
Colouration ²⁾	Filtration		DFAFA DFAAH
Radioactivity			
Measurement of metals			
Measurement of total and dissolved organic carbon ^{9) 10) 11)}	Filtration, combustioninfrared	0.45 µm cellulose acetate/mixed cellulose ester	CA 0,45 or NC 0,45
	Filtration, oxidation	Glass microfibre	DMEFC DFAAH
Measurement of dissolved iron ²⁾	Filtration	0.45 µm cellulose acetate	CA 0,45
Measurement of metals (pre-filtration) ¹²⁾	Filtration, ASS	0.45 µm cellulose acetate	CA 0,45
Measurement of metals	Buchner funnel	Quantitative filter paper	DSL45 DSL44
Measurement of radioactivity ¹³⁾	Precipitation (Ra)	0.45 µm cellulose acetate	CA 0,45
Measurement of non-metallic inorganic compounds ¹⁴⁾	Filtration	Quantitative filter paper	DSL45 DME43 DSL44
Microbiological analyses of drinking water	Filtration	Sterile cellulose nitrate membranes, 0.2 µm or 0.45 µm, gridded	NC 0,2 or 0,45
Microbiological analyses of drinking water, legionella		Sterile cellulose nitrate 0.2/0.45 µm, black, gridded	PCTE 0,45 or 0,2

1) DIN EN 872

2) DIN 38409-1

3) DIN 38409-2 D

4) UNE 77031:

5) 2540 C Standard Methods

6) 2540 E Standard Methods

7) 2530 B Standard Methods

8) UNE EN 1484

9) 5310 B Standard Methods

10) 5310 D Standard Methods

11) 3030 B Standard Methods

12) UNE 77037

13) Part 4000 Standard Methods

14) DIN 38409 H2-2

15) 2540 C Standard Methods

Environmental analysis

Waste products



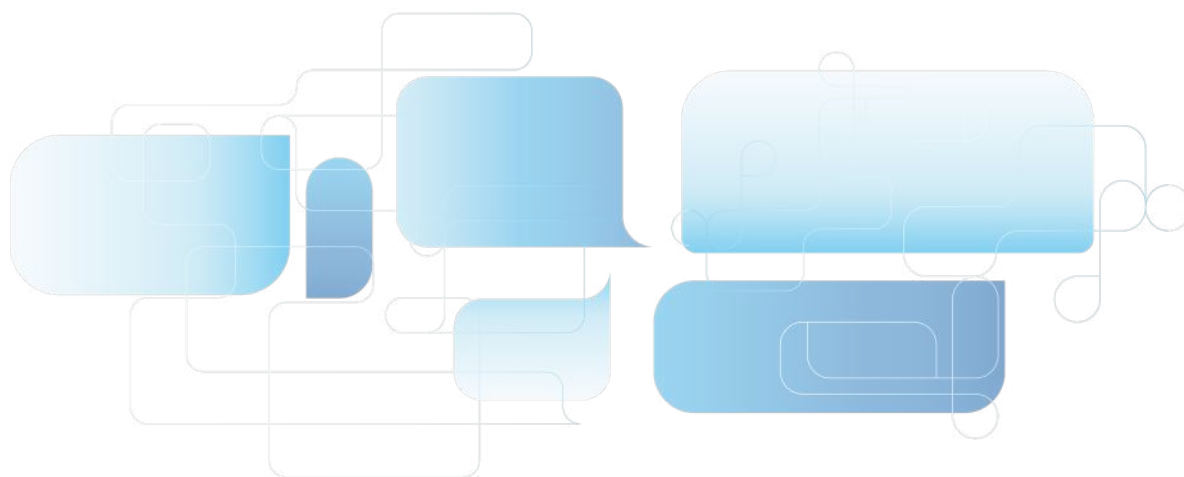
Target application

- Analysis of waste products in the disposal of industrial waste and laboratory waste
- Particle separation and clarification before further measurements
- Sample preparation and washing out of samples for characterisation of toxic substances

Process	Technique	Type of Filter	Filter grade
Characterisation of dangerous substances	Filtration	PES/cellulose acetate/ cellulose nitrate membranes 0.2 µm	PES 0,2 NC 0,2 CA 0,2
Characterisation of toxic substances ¹⁾	Pressure filtration	Glass microfibre filter	DMEFC
Analysis of contaminated soil ²⁾	Extraction by water	PES/cellulose acetate/ cellulose nitrate membranes 0.45 µm	PES 0,2 NC 0,2 CA 0,2
Filtration of biosolids/sludge from wastewater	Continuous filtration by filterbelt	Fast, very high wet strength	DFA54
Protection of apparatus and surfaces	Absorption	Absorbent paper with polyethylene layer	AB1505

1) EPA 1311 TCLP

2) DIN 38414-4



Environmental analysis

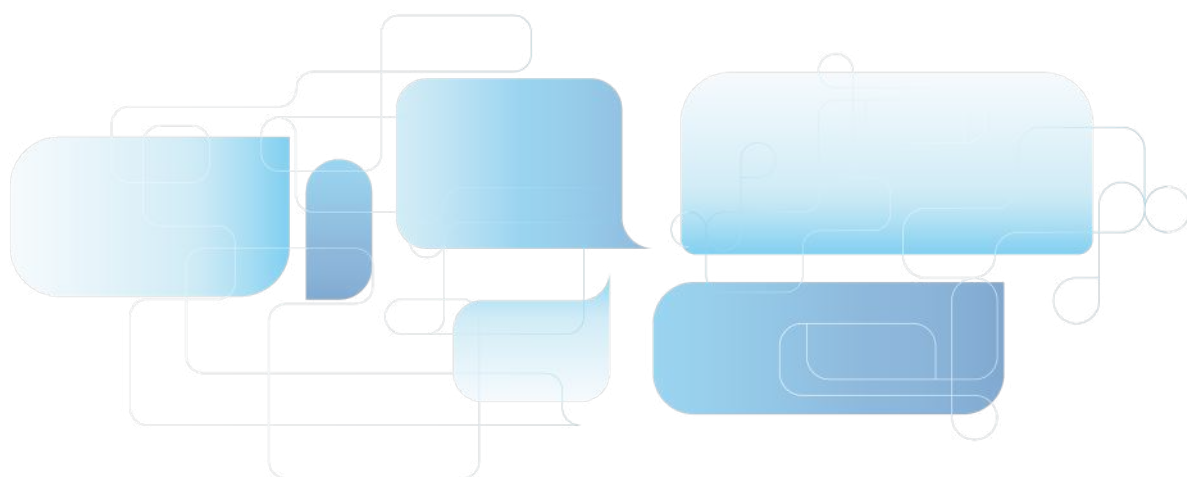
Quality control



Target application

- Clarification before quantitative analysis
- Sample preparation before HPLC
- Microbiological investigations
- Extraction before an analysis

Process	Technique	Type of Filter	Filter grade
Gravimetry	Filtration (funnel)	Filter paper for quantitative analyses	DFA41 DSL45 DME43 DSL44 DMS40 DXS42
		Hardened filter paper for quantitative analyses	DFA41 DMS40 DXS42
Analysis of chemicals	Paper chromatography	Chromatography papers	CH3002 CH3003
Clarification of samples	Pre-filter for membranes	Glass microfibre filter	DAM07
Microbiological analysis	Detection of microorganisms	Cellulose nitrate membranes with grid, 0.45 and 0.2 µm, sterile Mixed cellulose ester membranes with grid, 0.45 µm and 0.2 µm, sterile	NC 0,2 or 0,45
	Clarification of biological fluids	Sterile syringe filter with cellulose acetate 0.45 µm and 0.2 µm Sterile syringe filter with PES 0.45 µm and 0.2 µm	Abluo 0,2 or 0,45
HPLC	Preparation of organic samples	Nylon syringe filter, 0.2 µm	Abluo 0,2
	Filtration of mobile phase	Nylon membrane, 0.2 µm	NY 0,2
Surface protection	Absorption	Absorbent paper with polyethylene layer	AB1505



Chemicals

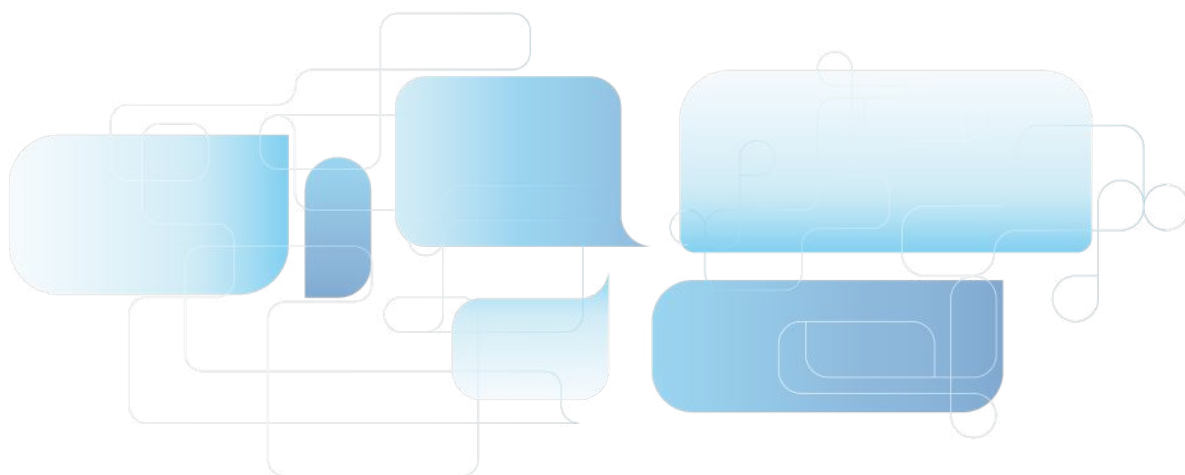
Cleaning materials



Target application

- Clarification before quantitative analysis
- Gravimetric measurements
- Sample preparations before HPLC

Process	Technique	Type of Filter	Filter grade
Gravimetry	Filtration (funnel)	Filter paper for quantitative analysis	DFA41 DSL45 DME43 DSL44 DMS40 DXS42
Determination of tenside content	Filtration (funnel)	Glass microfibre filter	DFAFA
HPLC	Clarification of samples	Syringe filter with Nylon, 0.45 µm	Abluo 0,2
Separation of solids in suspensions	Clarification of samples	Syringe filter, with PES, 0.2 µm Syringe filter, with Nylon, 0.2 µm	Abluo 0,2
	Filtration of mobile phase	Nylon membranes, 0.2 µm	NY 0,2
	Filtration (funnel)	Glass microfibre filter	DMEFC
Surface protection	Absorption	Absorbent paper with polyethylene layer	AB1505



Chemicals

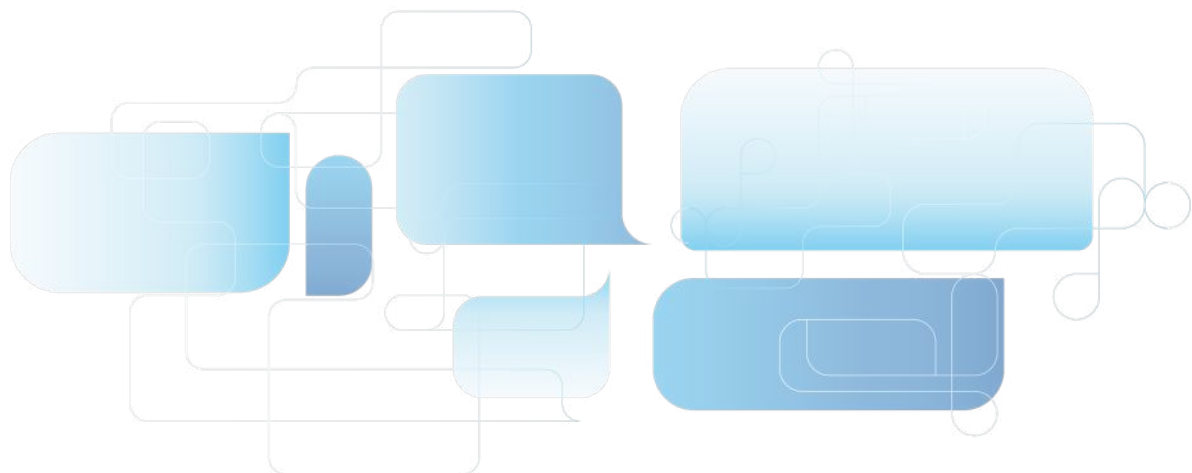
Cement analysis



Target application

- Ensuring product quality
- Determination of water retention capacity
- Determination of grind level

Process (Technique)	Type of Filter	Size Ø (mm)	Filter grade	Weight [g/m²]	Thickness (mm)
Water retention capacity (DIN EN 413-2)	Filter paper	100	C3003	192	0.36
Building lime (DIN EN 459-2)	Filter card	190 x 190 sheets	F3006	730	1.3
Mortar with binders containing minerals	Filter card	190 x 190 sheets	F3006	730	1.3
Blaine test (grinding fineness of cement (DIN EN 196-6))	Filter paper	fast	DSL45	79	0.19
		12.5			
		12.7			
		40.5	DFA41	86	0.18
		12.7			
		40.5			
		fast	DSL45	79	0.19



Chemicals

Oil refinery



Target application

- Clarification before quantitative analysis
- Gravimetric measurements
- Analysis of soot particles

Process filtration

Removal of particles from used oil

Process	Technique	Type of Filter	Filter grade
Gravimetry	Filtration (funnel)	Filter paper for quantitative analysis	DFA41 DSL45 DME43 DSL44 DMS40 DXS42
		Hardened filter papers for quantitative analysis	DFA41 DMS40 DXS42
Solid-liquid separation		Filter paper qualitative analysis, low ash	DMS03
Determination of solids in suspensions	Filtration, weighing	Glass microfibre filter	DMEFC
Surface protection	Absorption of liquids	Absorbent paper with Polyethylene coating	AB1505
Determination of particles with diameter $\geq 0.8 \mu\text{m}$	Filtration, weighing	White, smooth cellulose nitrate membranes $0.8 \mu\text{m}$	NC 0,8
Determination of particles with diameter $\geq 0.45 \mu\text{m}$		White, smooth cellulose nitrate membranes $0.45 \mu\text{m}$	NC 0,45
Monitoring of soot in oil (OCM)	Dispersancy of the oil on absorptive paper	Absorptive, dense filter paper	DNS06

Production	Type of Filter	Filter grade
Clarification and purification	Fast, creped, for large particles	DXF13
	Medium-fast, for small particles	SP3003
Removal of particles from used oils	Very fast, wet strength	DXF13



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PRODUCT COLLECTION - Application Guideline

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