







#### **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 companyoperating 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 qualit low ash accor- ding		Filter paper for qualitative analysis, low ash accor- ding to § 64 LFBG	DXF04 DME01 DME07 DXS05
	Clarification of aqueous samples	arification of aqueous samples 0.2 µm cellulose acetate syringe filter 0.2 µm PES syringe filter 0.2 µm cellulose acetate membranes 0.2 µm PES membranes	
	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
	Clarification of juices	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
			DXF04
			DME01
Particle separation	Filtration (funnel)	Filter paper for qualitative analysis	DME07
			DXS05
			DNS06
	Removal of turbidity	Low ash filter paper	DNS06
Removal of CO <sub>2</sub>			
and turbidities from wine and	Filtration	Filter paper with Kieselguhr	DMS60
sparkling wine			
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
		0.45 µm cellulose acetate or PES	Abluo 0,45
HPLC	Clarification of aqueous	syringe filter	
	samples	0.45 µm cellulose acetate or PES membranes	CA 0,45
Colour characteristics	Clarification of grape must /	0.45 µm cellulose acetate syringe	CA 0.45
	wine	filter	
Spectrophotometry	Protection of the apparatus	0.45 µm cellulose acetate membranes	CA 0,45
		White, sterile cellulose nitrate	
Microbiological analysis	Detection of microorganisms	membranes or mixed cellulose esters	NC 0,2 or NC 0,45
		with grid, 0.2 and 0.45 µm	

Production	Type of Filter	Filter grade
Clarification of sweetened, viscous wines Papers and cards	Medium-fast, wet strength	SP3001
Filtration of unsweetened wines	Creped, fast, wet strength Fast, wet strength	DXF13 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 CO<sub>2</sub> and turbidities
- · Measurement of nitrogen compounds, proteins and trace elements

Process <sup>1</sup>	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 <sub>4</sub> 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 unsaponifable 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	- Eiltration (funnal)	Filter paper for qualitative analysis	DXF04 DME01 DME07	
Gravimetric analysis	"Filtration (lunnei)	Filter paper for qualitative analysis	DXS42 DFA41 DSL45	
Measurement of solids in	Filtration weighing	Class microfibro filtor	DMEEC	
suspensions	Filtration, weighing	Glass microfible 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	NC 0.2 or 0.45	
		with grid, 0.2 and 0.45 µm	INC 0,2 0F 0,43	
Protection of apparatus and	Abaaratian			
surfaces	Absorption	Absorbent paper with polyethylene layer	AD 1909	



### **Food safety**

Meat and meat products

- 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		Filter paper for quantitative analyses, ash-free	DME43
Measurement of trace elements	Filtration (funnel)	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

- 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 particular matter) and total suspended particles (TSP: total suspended particular 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	High volume capturer	_		
total suspended particulate	Low volume capturer	•		DFAFA
TSP ( $\emptyset > 30 \mu m$ ) <sup>1)</sup>	Cascade impactor			
Sampling and analysis of PM10 ( $\emptyset > 10 \mu m$ ) <sup>1/2/3)</sup>	High volume capturer	Gravimetry	Quartz microfibre filter, in line	
	Low volume capturer		with US EPA and DIN EN ISO	D0QF2
	Cascade impactor		23210	
Sampling and analysis of PM2.5 (Ø >2.5 $\mu$ m) <sup>1)</sup>	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 <sup>4)</sup>	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, grinderies, 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	Isokinetic probe with rear filter-holder (up to 500°C)	Elltration weighing	Glass microfibre filter Glass fibre thimbles	DFAFA
(gravimetry) <sup>1) 2) 3) 4)</sup>	Isokinetic probe with front filter-holder (up to 900°C)	" Filtration, weigning	Quartz microfibre filter Glass fibre thimbles	D0QF2
Measurement of inorganic lead <sup>5)</sup>	Isokinetic probe with rear filter-holder (up to 500°C)		Glass microfibre filter Glass fibre thimbles	DFAFA
Measurement of metals <sup>6)</sup>	Isokinetic probe with rear filter-holder (up to 500°C)	Atom absorption spectroscopy	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 <sup>7)</sup>	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 2030	Filtration, weighing	Glass microfibre	DFAAH
		Qualitative filter paper	DSL45
Measurement of solids in suspensions after drying at 105°C <sup>(1) 2) 15)</sup>	Filtration, weighing	Glass microfibre	DMEFC DFAAH
Measurement of the total remainder after drying at 180°C <sup>5) 6)</sup>			DMEFC DFAAH
Solids and volatiles after incineration at 550°C $^{7)}$			DFAFA
Suspended particles <sup>8)</sup>	••		DMEFC DFAAH
Colouration <sup>2)</sup>	Filtration	••	DFAFA DFAAH
Radioactivity			
Measurement of metals	-		
Measurement of total and dissolved organic carbon <sup>9) 10) 11)</sup>	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) <sup>12)</sup>	Filtration, ASS	0.45 µm cellulose acetate	CA 0,45
Measurement of metals	Buchner funnel	Quantitative filter paper	DSL45 DSL44
Measurement of radioactivity <sup>13)</sup>	Precipitation (Ra)	0.45 µm cellulose acetate	CA 0,45
Measurement of non-metallic inorganic compounds <sup>14)</sup>	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 <sup>1)</sup>	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





### **Chemicals**

Quality control

- 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 $\mu$ m, sterile Mixed cellulose ester membranes with grid,0.45 $\mu$ m and 0.2 $\mu$ m, 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

- 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
			12.5			
Blaine test (grinding fineness of cement (DIN EN 196-6)	Filter paper	fast	12.7	DSL45	79	0.19
			40.5			
		medium-fast	12.7	"DFA41	86	0.18
			40.5			
		fast	41.5	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	
			DFA41	
			DSL45	
	Filtration (funnel)	Filter and a few supertiteting and sig	DME43	
		Filter paper for quantitative analysis	DSL44	
Gravimetry			DMS40	
			DXS42	
		Hardened filter papers for quantitative	DFA41	
		analysis	DMS40	
			DXS42	
Solid-liquid separation		Filter paper qualitative analysis, low	DMS03	
		ash		
Determination of solids in suspensions	Filtration, weighing	Glass microfibre filter	DMEFC	
Surface protection	Absorption of liquids	Absorbent paper with Polyethylene	AB1505	
		coating		
Determination of particles with		White, smooth cellulose nitrate	NC 0,8	
diameter $\geq$ 0.8 $\mu$ m	- Filtration weighing	membranes 0.8 µm		
Determination of particles with	in intation, weighing	White, smooth cellulose nitrate		
diameter $\ge$ 0.45 $\mu$ m		membranes 0.45 µm	110 0,40	
Manitarian of agent in all (OCM)	Dispersancy of the oil on	Absorptive danse filter paper	DNS06	
	absorptive paper	Absorptive, dense lilter paper		

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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