

## Glass microfiber filters

GVS offers a wide range of glass microfiber filters made of 100% borosilicate glass fibers with and without binders. The depth structure of the filter's large surface area, provides an outstanding impurity retention capacity combined with a low filter resistance. Glass fiber filters adsorb the finest particles down to 1  $\mu\text{m}$  from liquids and  $<1 \mu\text{m}$  in air and gases (even aerosols with this particle diameter are separated), as the electrostatic interaction between the glass fibers and gases is better than between glass fibers and liquids. Temperature resistant up to 500°C (in the case of organic binders up to 180°C).

### 1. Glass microfiber filters without binders

#### DFAFA GRADE (1.6 $\mu\text{m}$ )

Particularly suited for atmospheric pollution controls, intake controls and ozone level measurements.

This product is used in testing with algae in water, for general water controls and waste water analysis.

Its use for filtering solvents in high-resolution laboratories is recommended.

#### DAM10 GRADE (1.0 $\mu\text{m}$ )

It is mainly used in membrane pre-filtration and for biochemical assays.

Suitable for filtration of large sample volumes.

#### DMEFC GRADE (1.2 $\mu\text{m}$ )

This is the most suitable filter to test for solids in suspension in water in accordance with the parameters set by the EN-872:2005 European regulation and American Standard Methods norm 2540D. In general, it is suitable for any work in water control or wastewater analysis, including clarification processes.

Within biochemical tests, it is very useful for analysing carbohydrates, cellular cultures, etc.

#### DAM27 GRADE (2.7 $\mu\text{m}$ )

The most widespread use of this filter is in membrane pre-filtering.

Its high particle retention ensures that the sample is properly clarified before passing through surface filters (membrane filters).

#### DSLFF GRADE (0.7 $\mu\text{m}$ )

This is the filter with the highest retention performance of the range. It is particularly suited to filter samples and solvents for HPLC, being this pre-filtration the most important for ensuring the success of the test. It is also suitable for biochemical tests, such as clarifications, protein filtrations, cellular cultures, etc.

#### DFAAH GRADE (1.5 $\mu\text{m}$ )

Suitable for atmospheric pollution control, particularly in testing for air intake levels. It is also appropriate for wastewater controls, testing for solids in suspension, dissolved solids and volatile matter in accordance with the parameters set by the American Standard Methods norm 2540D.

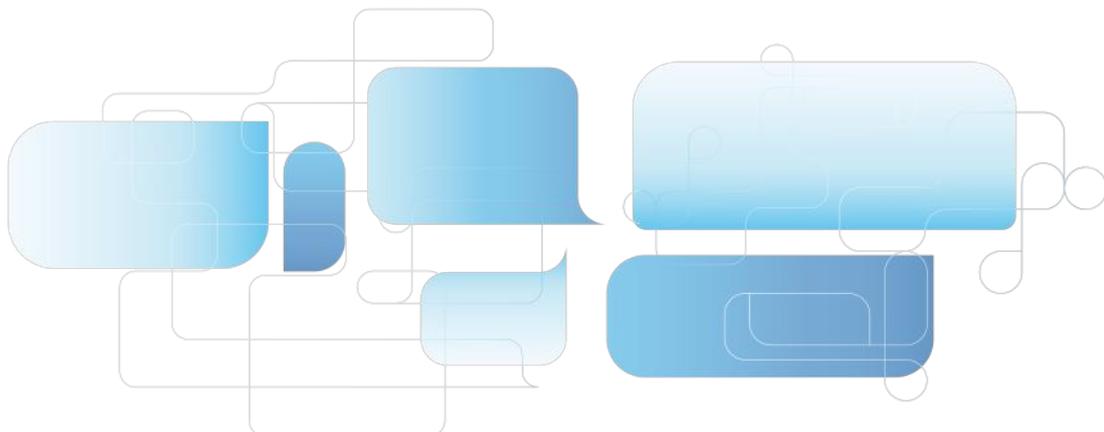
It is also suitable for cellular cultures.

# Disc and Sheet Membranes

Grade	Applications
<b>DFAFA</b>	Atmospheric pollution controls, intake controls and ozone level measurements Filtration for algae in water, foodstuff analysis, bacteria cultures, proteins
<b>DAM10</b>	Used in membrane pre-filtration Biochemical assays Suitable for filtration of large volumes
<b>DMEFC</b>	Determination of suspended solids in water in accordance with European regulations Clarification and monitoring water and wastewater analysis Analysis of carbohydrates, cellular cultures in biochemical tests where cellulose fiber is an inconvenience
<b>DAM27</b>	Used as a membrane pre-filter Determination of contaminants in fats according to LMBG
<b>DSLFF</b>	Highest retention performance of the range Filtration of samples and solvents prior to HPLC Biochemical assays and clarifications of protein solutions
<b>DFAAH</b>	Filtration of suspended solids in water, wastewater analysis Total suspended solids analysis Atmospheric pollution control It is also suitable for cellular cultures

## Technical Specifications

GVS	Retention Range (µm)	Weight (g/m <sup>2</sup> )	Thickness (µm)	Retention Drop(*) (%)	Binder
DFAFA	1.6	52	260	99.998	NO
DAM10	1.0	143	700	99.998	NO
DMEFC	1.2	53	260	99.998	NO
DAM27	2.7	120	530	99.998	NO
DSLFF	0.7	75	450	99.998	NO
DFAAH	1.5	65	280	99.998	NO



# Disc and Sheet Membranes

## Ordering information

Diameter (mm)	DFAFA	DAM10	DMEFC	DAM27	DSLFF	DFAAH
100 Circles/Box						
21	FP021DFAFAGLFC01	FP021DAM10GLFC01	FP021DMEFCGLFC01	FP021DAM27GLFC01	FP021DSLFFGLFC01	FP021DFAAHGLFC01
25	FP025DFAFAGLFC01	FP025DAM10GLFC01	FP025DMEFCGLFC01	FP025DAM27GLFC01	FP025DSLFFGLFC01	FP025DFAAHGLFC01
37	FP037DFAFAGLFC01	FP037DAM10GLFC01	FP037DMEFCGLFC01	FP037DAM27GLFC01	FP037DSLFFGLFC01	FP037DFAAHGLFC01
47	FP047DFAFAGLFC01	FP047DAM10GLFC01	FP047DMEFCGLFC01	FP047DAM27GLFC01	FP047DSLFFGLFC01	FP047DFAAHGLFC01
50	FP050DFAFAGLFC01	FP050DAM10GLFC01	FP050DMEFCGLFC01	FP050DAM27GLFC01	FP050DSLFFGLFC01	FP050DFAAHGLFC01
55	FP055DFAFAGLFC01	FP055DAM10GLFC01	FP055DMEFCGLFC01	FP055DAM27GLFC01	FP055DSLFFGLFC01	FP055DFAAHGLFC01
70	FP070DFAFAGLFC01	FP070DAM10GLFC01	FP070DMEFCGLFC01	FP070DAM27GLFC01	FP070DSLFFGLFC01	FP070DFAAHGLFC01
90	FP090DFAFAGLFC01	FP090DAM10GLFC01	FP090DMEFCGLFC01	FP090DAM27GLFC01	FP090DSLFFGLFC01	FP090DFAAHGLFC01
110	FP110DFAFAGLFC01	FP110DAM10GLFC01	FP110DMEFCGLFC01	FP110DAM27GLFC01	FP110DSLFFGLFC01	FP110DFAAHGLFC01
125	FP125DFAFAGLFC01	FP125DAM10GLFC01	FP125DMEFCGLFC01	FP125DAM27GLFC01	FP125DSLFFGLFC01	FP125DFAAHGLFC01
150	FP150DFAFAGLFC01	FP150DAM10GLFC01	FP150DMEFCGLFC01	FP150DAM27GLFC01	FP150DSLFFGLFC01	FP150DFAAHGLFC01
240	FP240DFAFAGLFC01	FP240DAM10GLFC01	FP240DMEFCGLFC01	FP240DAM27GLFC01	FP240DSLFFGLFC01	FP240DFAAHGLFC01
Size (mm)	DFAFA	DAM10	DMEFC	DAM27	DSLFF	DFAAH
100 Sheets/Pack						
203x254	FP203RFAFAGLFC01	FP203RAM10GLFC01	FP203RMEFCGLFC01	FP203RAM27GLFC01	FP203RSLFFGLFC01	FP203RFAAHGLFC01

## Equivalence Table

GVS	Equivalent 1	Equivalent 2	Equivalent 3	Equivalent 4
DFAFA	GF-A	GF 50	GF1	MGA
DAM10	GF-B	GF 51	GF2	MGB
DMEFC	GF-C	GF 52	GF3	MCG
DAM27	GF-D	GF 53	GF4	MGD
DSLFF	GF-F	GF 55	GF5	MGF
DFAAH	934-AH	GF 30	GF6	550-HA

