ENG Sectoral Filtration

Pure filtration for the air pollution control

DORSAN®

LIVING FILTRATION

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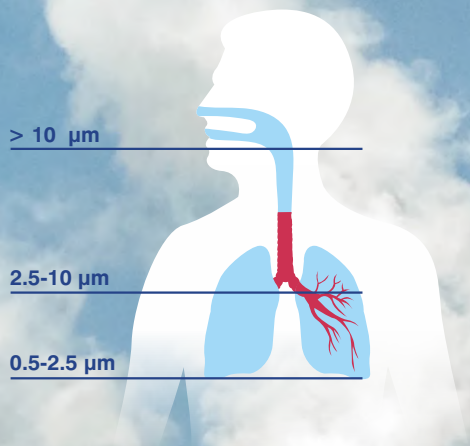
“In laboratories and industries we are recognized for our high quality materials and high performance”

Filters for heavy metals, organics and inorganics

Grade	Grammage (gsm)	Thickness (um)	Air retention efficiency @ 3 um	Temperature Resistance º C	Binder	Pre Fired	Whatman Equivalent
FV-110	52	250	99.9 %	550	NO	NO	GF/A
FV-130	52	260	99.9 %	550	NO	NO	GF/C
FV-20	85	450	99.9 %	550	NO	YES	EPM2000
Q-AZ	85	475	99.9 %	900	NO	YES	QM-A
FV-1000	70	355	99.9 %	180	YES	NO	GF-10
FV-6100	55	290	99.9 %	180	YES	NO	HGF61
PTFE 2.5 PP ring	10	40	99.9 %	250	NO	NO	-
CA-500	500	2000	80.0 %	180	NO	NO	-



At Dorsan® we are passionate about creating filtration products, we love what we do and we put all our efforts into it. For this reason, our company slogan, **“Living Filtration”**, is not casual or insignificant. We intensely live and feel the processes of **filtration**.

Since Dorsan’s birth, we have aspired to be **the market leader** in liquid filtration solutions. Our pursuit of excellence is the most motivating challenge for the progress of our company.

At present, we have production facilities in **France, Germany, India, Mexico and Spain**. Our vision is to have branches and commercial offices on all continents. Today, one of our greatest reasons for pride is to have **customers in more than 60 countries** that cover a vast geographical territory.

In this catalogue you will find the most common references that are used for air monitoring controls. Our range is adapted to current needs while our R&D department is planning new qualitative and differentiated solutions for the future. Other options for more specific and concrete applications are offered on request by contacting our usual contact addresses.

PM2.5/ PM10/TSP air particulate monitoring

Dorsan® offers a wide range of products used for air particulate sampling and analysis. Air monitoring applications includes dust, chemical component testing and gravimetric determination of airborne particulates as PM2.5/PM10 and TSP.

Our glass and quartz microfiber filters meet international standards EPA ambient air monitoring standards DIN EN ISO 23210 and DIN EN 14902:2005 offered on request by contacting our usual contact adresses.

Air monitoring

- High Efficiency rates
- Very good air permeability
- Hot temperature resistances up to 500 ºC

Testing type: PM 10
Glass Microfiber Filters

Filters for heavy metals organics, and inorganics.

Dorsan© glass filter media are made with high pure microfibers of borosilicate glass and including in some grades synthetic binders. The use of fine fibers provides high efficiency rates, good air permeability combined with high dirt holding capacity . These filters are compatible with a large number of organic and inorganic products being phisically and biologically inert.

The microfiber glass is used in retention of particles and aerosols from the air. These controls help the authorities to get the corrective actions to prevent the risks to popullation and environment.

Testing type: PM 10
Quartz Microfiber Filters

- Excellent filtration properties
- Very low traces of metals
- Recommended for extremely hot temperatures

Filters for heavy metals organics, and inorganics.

Our Quartz filters are recommended for air sampling in aggresive environment when the highest purity media is required. In addition presents excellent filtration properties and minimal traces of metals and minerals.

Quartz fibers can be used in the control and analysis of acidic gases with the exception of hydrofluoric acid.

Dorsan© offers high-purity microfiber quartz filters used for air sampling in extreme conditions of hot temperatures up to 1000º C.

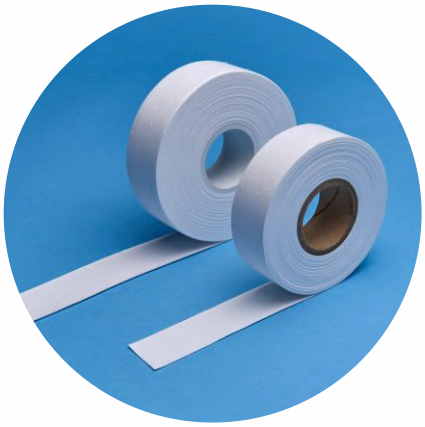
- Gravimetric analysis
- High air flow sampling
- High pure borosilicate glass fibers

Testing type: Heavy metal in air (TSP)
Glass Microfiber Filter FV-20

This special filter is manufactured with no binders for manual gravimetric analysis and chemical determination.

Environmental Protection Agency (EPA) for use in high air flow sampling equipments that capture atmospheric airbone particles.

It is manufactured with 100% microfibers of high pure borosilicate glass. Being prefired is enable for be used in aggresive environments.



- Faster testings
- Higher wet strength
- Continous air monitoring tapes

Testing type: PM10 & PM 2.5

Glass Microfiber Filter Paper in Roll

Glass microfiber FV-1000 filter roll simplify the process and offers automatic and faster testing results. This grade is made with synthetic binder that offers a high wet strength in extreme conditions of moisture in the atmosphere.

With a temperature resistance up to 180º C this product for air sampling offers the best solution for cases when the quantity of tests are high.

The rolls are used as an aid for infrared weighing processes and as a roll filter in continous air monitor tapes.

Testing type: PM 2.5

PM 2.5 PTFE filters with PP ring

- Ensure accurate gravimetric determination
- Numbered ring
- No metals and minerals contain

These filters are used for the measurement of fine particulate matter in the atmosphere for the US EPA particulate matter PM 2.5 reference method.

Dorsan© PM 2.5 PTFE with PP ring is a thin microfilter membrane free of minerals or metals. The ring edge consist in a chemically resistant supported PP that it is numbered for easy determination and control of monitoring. Particulary recommended when traces of metals are important in the control process. Glass and Quartz filter media release some small traces of metals that can modify the results in gravimetric analysis.

- High quantity of carbon
- High retention of RAI
- Alpha-cellulose and carbon

CA-500 for radioactivity air particulate sampling

Grade CA500 is a composite product of alpha cellulose fibers loaded with activated carbon. It is recommended to absorb radioactive iodine (RAI) in air pollution monitoring in nuclear power stations.

The main characteristic of our grade CA500 is to have a high quantity of carbon particles due to the high grammage (500 gsm) and thickness (2 mm). This relevant content of carbon offers the capability to have a high retention of radioactive iodine (RAI) particles.

- Homogenous wall thickness
- The consistent high porosity ensures fast flow through
- High fitting accuracy for all available extraction systems

Testing type: Stack monitoring

Cellulose Thimbles

The cellulose fibers offer a good solution for filtering pollutans in environmental and residue analytics. With a good resistance to low-medium temperatures this is the option when the size of particles to be controlled are not important.

Made of pure cellulose that is totally free from binding resins that guarantees reilable results.

Testing type: Stack monitoring

Glass Microfiber Thimbles

- High loading capacity and highly permeability to air
- High retention of small particles, > 99% according to BS4400
- Recommended for aggresive solvents in controls of environmental pollution

Dorsan ® high purity micro-glass fiber thimbles can be used in temperatures up to 500°C. They are particularly recommended for analysis of particles and aerosols in gases and air.

Made of 100% pure borosilicate glass without binding resins. The thimbles are acid washed to reduce the trace metal content to minimum levels.

- Extremely low content in metals.
- High resistance to solvents
- Temperature resistant up to 1000ºC

Testing type: Stag monitoring

Quartz Microfiber Thimble

Dorsan © Quartz Fiber Thimble Filters are seamless and made from 100% pure silica fibers. Quartz thimbles offer the highest heat resistance and can be used in temperatures up to 1000°C.

Recommended for analysis of particles and aerosols in gases and air pollution.

Excellent retention of very fine particles through the adsorption mechanisms of quartz fibres: > 99 % according to BS 4400.

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HIGH QUALITY PRODUCTS
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MADE IN GERMANY