



### Advanced Filtration

## Glass and quartz microfiber filters for air monitoring

- Consistent submicron retention efficiency
- Fast flow rate and high loading capacity
- Made of high purity borosilicate or quartz filters
- Wide range of filter diameters and formats available on demand
- Meets international standards for airborne particles and trace elements monitoring

### Ahlstrom offers the highest quality glass and quartz filters ideal for air pollution control.

Ahlstrom offers a wide range of glass microfiber filters used to collect particles and aerosols. The portfolio includes filters with hydrophobic binders to ensure the required strength in wet conditions as well as binder-free hydrophilic filters.

Ahlstrom also offers quartz microfiber filters used for air sampling in aggressive environments (acidic conditions, high temperature). Ultra-pure SiO<sub>2</sub> fibers allow the highest quality for standardized trace elements analyses.

Glass and quartz microfiber filters meet the highest requirements for various applications including:

- Air pollution control including dust monitoring and chemical analysis
- PM 10 monitoring
- Heavy metals monitoring
- Emission control at high temperature
- Smoke spot number measurement

## Typical grade properties

Grade	Basis weight (g/m <sup>2</sup> )	Efficiency % (0.12-0.3 µm)	Temperature resistance (°C)	Finish
MG 227/1/60	60	99.3	180°C	Hydrophobic
MG 227	75	99.93	180°C	Hydrophobic
MG 160	75	99.95	500°C	Hydrophilic
MK 5	85	99.99	500°C	Hydrophilic
MK 360	85	99.95	900°C	Hydrophilic

All glass and quartz microfiber filters are manufactured in ISO certified facilities.

## Glass microfiber filters

MG 227 grades contain hydrophobic binders ensuring the integrity of the glass microfibers media in wet filtration conditions.

- MG 227/1/60 is recommended for air pollution control when chemical analyses are required.
- MG 227 is specifically recommended for measurement of smoke spot number.

MG 160 is a binder-free glass microfiber filter used to capture airborne particulate matter.

- Used in high volume PM10 air sampling equipment.
- Recommended for ambient air monitoring.

Grade	Pcs/Pack	Filter Diameter (mm)				
		47	55	70	90	110
MG 227	100	443045	443047	-	443056	443060
MG 227/1/60	100	443005	443007	443009	443010	443012
MG 160	50	440015	410003	410004	410005	410013

Other filter diameters, roll and sheet formats available on demand.

## Quartz microfiber filters

MK 5 quartz microfiber filter is the recommended grade for airborne particulate monitoring in aggressive environments.

- Matches EPA and ISO standards for PM10 monitoring.

MK 360 quartz microfiber filter is made of 100% quartz fibers and recommended when the highest level of purity is required.

- Suitable for heavy metal and other trace element analysis.
- Fired at high temperature so filter is stable at up to 900°C.

Grade	Pcs/Pack	Filter Diameter (mm)					
		47	55	70	90	103	203x254
MK 5	50	420200	420201	420202	420203	420204	420205
MK 360	25	420008	-	420014	420001	420002	-

Other filter diameters, roll and sheet formats available on demand.

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