



# Filters for Emission Service

## PRODUCT FEATURES / BENEFITS

- ◆ Complete Removal of Sub-Micron Contaminants
- ◆ Completely Disposable
- ◆ Suitable for Corrosive Applications
- ◆ High Flow Rates, Low Pressure Drops
- ◆ Emission Test Bench Protection
- ◆ Diesel Testing
- ◆ Analyzer Protection
- ◆ Stack Gas Testing

Ensure reliable emission test bench performance and compliance with Headline Filters microfiber elements. Protect your test standards with consistent, repeatable filter element quality.

Our disposable microfiber elements are manufactured from carefully controlled blends of borosilicate glass microfibers to the highest standards. With over 90% void volume, these elements deliver outstanding filtration efficiency at very low pressure drops. Designed to exceed industry requirements, they are fully compatible with standard proprietary filter housings.



For test cells operating below 300°F (150°C), our **K-Type fluorocarbon binder elements** provide proven reliability. They are the most widely used option, offering consistently low levels of adsorption. Additional grades are available, each engineered to meet specific application requirements.

<b>K Grade</b>	Elements are specified for particulate removal where corrosive gases and liquids are to be filtered as they have excellent chemical resistance. They are also used when highly reactive gases are being analyzed since they exhibit very low levels of adsorption.
<b>ET Grade</b>	Elements are hydrocarbon-free filters developed to remove particulate for automotive emission testing up to 400°F.
<b>RPT Grade</b>	Elements are constructed of a proprietary blend of microfiber glass and resin binders which virtually eliminate initial hydrocarbon content and fiber migration. This feature provides fast initial response times for emission analysis. These elements have the ability to function up to 650°F (342°C).
<b>S Grade</b>	Elements are completely inorganic and are used to filter particulate at temperatures from 300°F to 900°F.
<b>S21-R Grade</b>	The <b>S21-R Type</b> are used in diesel emission applications.
<b>SCR Filter Elements (Acid Washed)</b>	Acid Washed (AW) series of elements capture the excess ammonia that is introduced into the emission stream. This scrubbing is done by a chemical bond between the ammonia (NH <sub>3</sub> ) and the acid washed (Phosphoric) filter elements, thus protecting sensitive equipment. These are commonly referred to as Selective Catalytic Reduction (SCR) Filter Elements.

Our emission elements are engineered for efficient particulate removal in automotive gas streams and other demanding analytical applications. Constructed from borosilicate microfibers, they provide high flow rates with minimal pressure drop—an essential factor in maintaining analytical accuracy. The PVDF binder forms a chemically inert, non-reactive surface, ensuring precise sample analysis even when handling highly reactive gases. With excellent chemical resistance and low adsorption characteristics, these filters are ideally suited for critical gas filtration and analytical environments.

Our advantages are well recognized and include a broader product range for greater flexibility, superior quality standards, faster delivery times, and competitive, realistic pricing. Our filter elements conform to industry-standard sizes and grades, allowing seamless use in other manufacturers’ filter housings while maintaining equivalent efficiency and performance.

**K-Type**

For reliable, all-around test bench protection, the 70K grade offers excellent full-range performance.

**S-Type**

Ideally suited for hot gas (diesel) testing applications operating above 300 °F. The 70S grade is recommended as a full-range element for optimal performance.

**RPT Type**

Designed for highly sensitive testing benches that demand exceptionally low initial hydrocarbon content. For optimal performance, we recommend the 70RPT grade as a full-range element.

Part Number Element Size	Temperature Rating 0° - 300°F	Temperature Rating 300°F - 900°F	
<b>12-57-</b> (0.50" x 2.25")	12-57- <b>xx</b> K	12-57- <b>xx</b> S	12-57- <b>xx</b> RPT
<b>25-64-</b> (1" X 2.5")	25-64- <b>xx</b> K	25-64- <b>xx</b> S	25-64- <b>xx</b> RPT
<b>25-178-</b> (1" X 7")	25-178- <b>xx</b> K	25-178- <b>xx</b> S	25-178- <b>xx</b> RPT
<b>51-230-</b> (2" X 9")	51-230- <b>xx</b> K	51-230- <b>xx</b> S	51-230- <b>xx</b> RPT

**Please replace the "xx" with either 50 or 70 Grade. Example: 25-178-70S**

The "70" Grade element is rated at 95% efficiency against 0.01 micron particles.

The "50" Grade element is rated at 99.99% efficiency against 0.01 micron particles.

# Emission Filter Housings

## Heatable Housings

Designed for applications such as diesel exhaust sampling and continuous emission monitoring systems (CEMS), these housings maintain sample integrity at elevated temperatures.

- Suitable for use under vacuum (sample draw) or pressurized up to 30 psig.
- Four standard models available: H122S-TR, H130S-TR, H140S-TR, H254S-TR.
- Bayonet-type closure: Enables rapid element replacement in seconds, even at operating temperatures.
- The element is connected directly to the bayonet handle, allowing it to be completely removed from the housing body for quick change-out.



## Pyrex Glass Housings for Monitoring

Low pressure monitoring our 127G-147G filters for emission testing utilize a Pyrex bowl for at-a-glance monitoring of particle build-up.

- Positive O-Ring design eliminates leak points
- No tools needed for element service



## Disposable In-Line Filters & Adsorbers

Our Disposable In-Line Filters and Adsorbers are ideal for portable analyzers and systems requiring an easily last chance protection replaceable filter.

- Four sizes to choose from.
- Last chance filter ideal for portable systems.



## Nylon Housings for Portable Service

Our 100% nylon housings are an inexpensive, robust solution for emission analyzer service. Typically used on portable in field applications.

- Light Weight
- No Metal Parts



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