

DISPOSABLE FILTER ELEMENTS

Features:

- Complete Removal Of Sub-Micron Contaminants
- High Efficiency Coalescing
- Completely Disposable
- Suitable For Corrosive Applications
- High Flow Rates, Low Pressure Drops
- Custom Sizes Available
- Suitable For Highly Absorbent Gases
- Gas Or Liquid Service

Applications:

- Coalescing / Particulate Filtration
- Sterile Air
- Corrosive Gas Filtration



Our Microfiber disposable filter elements are manufactured from precise mixtures of borosilicate glass microfibers to the very highest standards. These elements offer exceptional filtration efficiency at very low-pressure drops and being +90% void volume give very long service life.

The elements are bonded to impart high strength and eliminate fiber shedding. The choice between the different binders available will depend upon the application. Each type of element is available in a wide range of efficiencies covering the complete range from coarse bulk contamination removal (grade 80) to essentially complete removal of sub-micron contaminants.

C Grade	Elements are specifically designed for the removal of liquid aerosols and particulate from gases in both corrosive and non-corrosive applications. The C type element is constructed of two layers of borosilicate microfiber. The first (inner layer) is comprised of very fine fiber and is more densely packed to capture microscopic aerosols. The outer layer is made up of slightly larger fibers which allow the captured liquids to pass through the depth of the wall and drain off the filter element. This two-layer design is critical to proper coalescing, and borosilicate microfiber is best suited for this function. Coalescing elements should always flow from the inside to the outside of the element so that proper draining of liquids can occur. The C grade elements will simultaneously collect particulates.
K Grade	Elements are specified for particulate removal where corrosive gases 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. The borosilicate microfiber provides relatively high flow rates with low pressure drops which is critical in any analytical application. The PVDF binder creates a non-reactive surface which allows accurate sample analysis.
CS Grade	Elements are designed for high temperature coalescing applications good to 900°F. Excellent for heavy coalescing. These elements mimic the C grade, only with a silica binder rather than a PVDF one.
RC Grade	Elements are designed for high pressure coalescing applications. These elements consist of a borosilicate glass inner layer sandwiched between two, rayon/phenolic layers. The reinforced inner/outer layers provide excellent strength.
S Grade	Elements are completely inorganic and are used to filter particulate at temperatures from 300°F to 900°F. The S21-R Type are used in diesel emission applications.
ET Grade	Elements are hydrocarbon-free filters developed to remove particulate for automotive emission testing up to 400°F.
Standard Grade	Elements are suitable for all particulate removal applications in non-corrosive gases and liquids. The coarsest grade that will adequately protect the application should be chosen, as this will result in the most economical solution to the contamination problem.
L Grade	Elements have a hydrophobic binder, making them ideal for applications where sterilization is required.



United Filtration Systems, Inc.
6558 Diplomat Drive
Sterling Heights, MI 48314
T (586) 802-5561 • F (586) 802-5562
sales@unitedfiltration.com
www.unitedfiltration.com

1-800-311-5561



Partner of Headline Filters

EDF-3

DISPOSABLE FILTER ELEMENTS

Dimensions:

- All disposable filter elements have a part number arranged with three figures, e.g. 25-64-70C.
- The first part refers to the inside diameter, the second figure refers to the overall length and the third part refers to the grade designation.
- Replace the 'XX' in the part numbers with the grade designation.
- Please enquire with specific requirements.

Example Part Number:

- 25-178-70C

PRINCIPLE SPECIFICATIONS

Element Grade Binder Type	Maximum Temp. (°F)	Grade designations, removal of 0.01 micron particles or particles and aerosols					
		99.99998%	99.9999%	+99.99%	+99.5%	+95%	+75%
C Grade PVDF Fluorocarbon Resin	300	30C	40C	50C	60C	70C	80C
K Grade PVDF Fluorocarbon Resin	300	30K	40K	50K	60K	70K	80K
CS Grade Silica Inorganic Resin	900	30CS	40CS	50CS	60CS	70CS	80CS
RC Grade Phenolic Resin	250	N/A	N/A	RC1	N/A	RC	N/A
S Grade S21-R Grade Silica Inorganic Resin	900	30S	40S	50S	60S	70S	80S
ET Grade PVDF Proprietary	400	30ET	40ET	50ET	60ET	70ET	80ET
Standard Grade Epoxy Ester Resin	300	30	40	50	60	70	80
L Grade Silicone Resin	400	N/A	40L	N/A	60L	N/A	N/A

STANDARD SIZES

12-25-xx	38-58-xx
12-32-xx	38-152-xx
12-57-xx	45-127-xx
25-51-xx	51-89-xx
25-64-xx	51-230-xx
25-127-xx	51-476-xx
25-178-xx	63-762-xx

Inside Diameters:
0.27" to 3.94" (7mm to 100mm)

Lengths:
.394" to 39.4" (10mm to 1000mm)



United Filtration Systems, Inc.
6558 Diplomat Drive
Sterling Heights, MI 48314
T (586) 802-5561 • F (586) 802-5562
sales@unitedfiltration.com
www.unitedfiltration.com

1-800-311-5561



Partner of Headline Filters

EDF-3