



Graver Technologies

Filtration | Separation | Purification

GFC™ Microfiberglass Filter Series

Glass Fiber Cartridges (GFC)

This high efficiency, disposable filter element is suited for a wide range of applications. The filter is constructed of pleated Borosilicate Microfiberglass filter media with greater surface area for high system flow rate.

Filter Features–Benefits

- Micron ratings from 0.2 to 30 µm– Broad application range
- Uniform pore size– High removal efficiency
- High surface area– High flow capability and dirt holding capacity
- Long service life– Minimizes maintenance costs
- Fixed pore construction– Eliminates dirt unloading at maximum differential pressure

Filter Specifications

Media:	Borosilicate Microfiberglass with Acrylic Binder
Inner core:	Polypropylene
Support layers:	Polyester
End caps:	Polypropylene
Cage:	Polypropylene
Gasket/O-Rings :	Buna-N, EPDM, Silicone, Teflon Encapsulated Viton O-Rings
Micron ratings:	0.2, 0.45, 1.0, 3.0, 10, 30 µm

Dimensions and Operating Parameters

Nominal lengths:	9.75", 10", 20", 30", 40" (24.7, 25.4, 50.8, 76.2, 101.6 cm)
Outside diameter:	2.7" (6.9 cm)
Inside diameter:	1.0" (2.54 cm)
Maximum operating temperature:	176 °F (80°C)
Maximum differential pressure:	80 psid @ 70 °F (5.5 bar @ 21°C) 40 psid @ 150 °F (2.8 bar @ 65°C)



Filter Removal Efficiency

Beta Ratio Efficiency	Beta 10 90%	Beta 20 95%	Beta 100 99%	Beta 1000 99.9%	Beta 5000 99.98%
0.2 micron	0.2	0.3	0.6	0.8	1.0
0.45 micron	0.45	0.6	0.8	1.8	2.0
1.0 micron	1.0	1.3	2.0	3.5	4.0
3.0 microns	3.0	4.0	5.5	9.0	10.0
10.0 microns	10.0	12.0	15.0	17.0	18.0
30.0 microns	30.0	35.0	38.0	42.0	45.0

$$\text{Beta Ratio} = \frac{\text{Upstream particle counts}}{\text{Downstream particle counts}}$$

The micron ratings shown at various efficiency and beta ratio value levels were determined through laboratory testing, and can be used as a guide for selecting cartridges and estimating their performance. Under actual field conditions, results may vary somewhat from the values shown due to the variability of filtration parameters.

Testing was conducted using the single-pass test method, water at 2.5 gpm/10" cartridge. Contaminants included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.

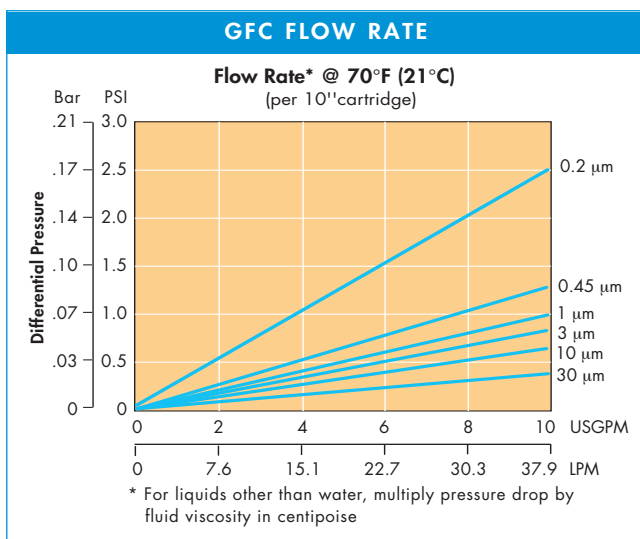
Applications

- Wine prefiltration
- Blowdown post filter
- Magnetic tape coatings
- Chemicals
- Inks
- Oil & Gas

GFC Nomenclature Information

<p style="text-align: center;">GFC</p> <p>Filter Type GFC Series Filters</p>	3	<p>-10</p> <p>Nominal Length (inches)</p> <p>-9.75 -10 -20 -30 -40</p>	P7	B	<p>-I</p> <p>Insert</p> <p>-I End cap insert for steaming</p>
<p style="text-align: center;">Retention Rating (microns)</p> <p>0.2 0.45 1 3 10 30</p>				<p>Gasket or O-Ring</p> <p>S Silicone B Buna-N E EPDM V Viton T Teflon encap. Viton (O-Rings only)</p>	
			<p>End Configuration</p> <p>P Double Open End P2 226/Flat Single Open End P3 222/Flat Single Open End P7 226/Fin Single Open End P8 222/Fin Single Open End AM Single open end, internal O-Ring</p>		

Example: GFC 3-10 P7B-I



For more information

Graver Technologies Customer Service: **1-888-353-0303**

Technical Support: **1-800-510-0932**

E-mail us at info@gravertech.com

Graver Technologies Europe (UK): **+44-1424-777791**

All information and recommendations appearing in this bulletin concerning the use of products described herein are based on tests believed to be reliable. However, it is the user's responsibility to determine the suitability for his own use of such products. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Graver Technologies as to the effects of such use or the results to be obtained. Graver Technologies assumes no liability arising out of the use by others of such products. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

GFC is a trademark of Graver Technologies, LLC.

DISTRIBUTED BY:



Pureworld Solutions Inc.

Vancouver Office:
4916 River Reach,
Delta, BC, V4K 4A4

T: 604-878-8092
info@pureworld.ca
www.pureworld.ca



Graver Technologies

200 Lake Drive
Glasgow,
DE 19702 U.S.A.

302-731-1700
800-249-1990
Fax: 302-369-0938

e-mail: info@gravertech.com
web site: www.gravertech.com

