

# Glass-PLEAT & Fiber-MAXX

Absolute-Rated Microglass Depth

- ▶ INKS AND COATINGS
- ▶ PLATING SOLUTIONS
- ▶ SOLVENT FILTRATION
- ▶ WASTE WATER

- ▶ CHEMICAL PROCESSING
- ▶ PHOTOGRAPHIC FILMS
- ▶ OIL AND GAS PRODUCTION

Strainrite's [Absolute-Rated Microglass Cartridges](#) utilize a high surface area and high void volume media, incorporating microglass fibers in a uniform matrix that optimizes element flow rate and service life unattainable by other microfiber technologies. This revolutionary microfiber matrix optimizes pore size geometry required to offer absolute-rated filtration performance. Strainrite's non-calendared microglass cartridges exhibit significantly reduced resistance to flow when compared to similarly rated microfiber technologies. These cartridges are an excellent choice for filtering beverages such as beer and wine, as they do not remove flavor enhancing proteins.

Our materials of construction meet or exceed the requirements of the CFR 21 for Food and Beverage contact. Strainrite offers elements that utilize an epoxy binder providing these microglass depth cartridges with an increased range of applications where chemical compatibility is critical.

The Fiber-MAXX now offers a Special Pleat option which provides expected surface area improvements of as much as 45% in General and Pharmaceutical grades. This optimized pleat geometry option was developed for the filtration of process fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization.



- ▶ **ABSOLUTE-RATED MEDIA**
- ▶ **NON-FIBER RELEASING MATERIALS WITH MINIMAL EXTRACTABLES PROVIDE HIGH PURITY FILTRATE**
- ▶ **LOW PRESSURE DROPS YIELD HIGHER FLOW RATES AND REDUCED PROCESSING TIME**
- ▶ **MAXIMIZED PLEAT DESIGN COUPLED WITH NON-CALENDARED MICROGLASS MATRIX OFFERS GREATER SURFACE AREA, ENSURING LONGER SERVICE LIFE, LESS DOWNTIME AND REDUCED COSTS**
- ▶ **INDUSTRIAL GRADE USES AN EPOXY BINDER, FDA GRADE USES AN ACRYLIC BINDER**

## **SPECIAL PLEAT OPTION:**

- ▶ **OPTIMIZED PLEAT GEOMETRY**
- ▶ **EXPECTED SURFACE AREA IMPROVEMENTS OF AS MUCH AS 25%**

## ORDER GUIDE

**GP0.8-10PPC3B1APH**

## ASTM F795-88 RETENTION RATING

0.8, 0.9, 1, 2, 3, 5, 10, 15

## MAXIMUM DIFFERENTIAL PRESSURE

## Forward:

75 psid (5.1 bar) @ 75°F (24°C)  
40 psid (2.8 bar) @ 180°F (82°C)

## MAXIMUM OPERATING TEMPERATURE

180°F (82°C) Continuous Duty Polypropylene

275°F (135°C) Continuous Duty Polyester

## TOXICITY

All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

## PACKAGING ECONOMY

## Bulk packaging in case quantities to reduce material disposal:

5 inch - 48 per carton | 10 inch - 24 per carton | 20 inch - 12 per carton | 30 inch - 12 per carton | 40 inch - 9 per carton

FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Borosilicate Microglass	Polypropylene Polyester	Polypropylene Polyester	Polypropylene Polyester

## SEALS

Buna N | Fluorocarbon | EPDM | Silicone | FEP Encapsulated Fluorocarbon | FEP Encapsulated Silicone | PTFE Foam | PTFE Hard

## CONSTRUCTION METHOD

Thermal Bond

## OUTSIDE DIAMETER

GP: 2.55" (6.48cm) | FMX: 2.7" (6.87cm)

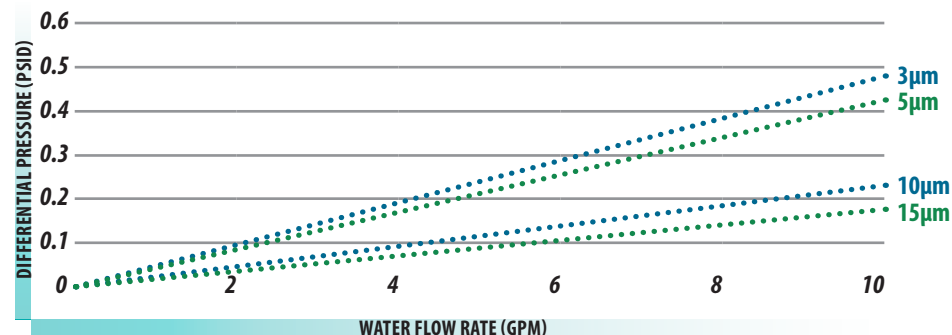
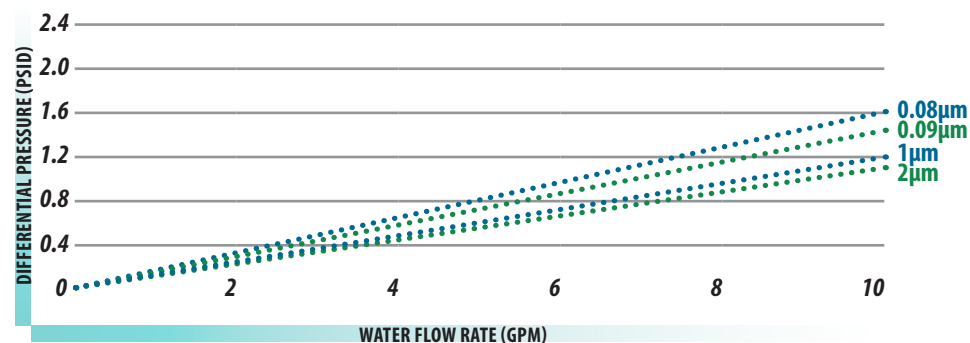
## LENGTHS

5 inch (12.7 cm) | 10 inch (25.4 cm) | 20 inch (50.8 cm) | 30 inch (76.2 cm) | 40 inch (102 cm)

## EFFICIENCY

GP0.8/FMX0.8 — 99.98% @ 0.8µm   90.00% @ 0.25µm	GP3/FMX3 — 99.98% @ 3µm   90.00% @ 1.5µm
GP0.9/FMX0.9 — 99.98% @ 0.9µm   90.00% @ 0.45µm	GP5/FMX5 — 99.98% @ 5µm   90.00% @ 2.5µm
GP1/FMX1 — 99.98% @ 1µm   90.00% @ 0.65µm	GP10/FMX10 — 99.98% @ 10µm   90.00% @ 5µm
GP2/FMX2 — 99.98% @ 2µm   90.00% @ 1µm	GP15/FMX15 — 99.98% @ 15µm   90.00% @ 10µm

## PERFORMANCE CHARACTERISTICS



## ORDER OPTIONS

CARTRIDGE	
GP FMX	Glass-Pleat (2.55") Fiber-MAXX (2.7")
MICRON RATINGS	
0.8*, 0.9, 1*, 2, 3*, 5*, 10*, 15	
<small>*Available in FDA grade</small>	
CARTRIDGE LENGTH	
5, 10, 20, 30, 40	
PLEAT SUPPORT	
PP PE	Polypropylene Polyester
END CAP CONFIGURATIONS	
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222
GASKET/O-RING MATERIAL	
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone
CARTRIDGE GRADE	
-	General
1	FDA Grade
2	Pharmaceutical
CARTRIDGE OPTIONS	
I DIF APH	316 SS Insert DI Flush All Polyester Hardware
SPECIAL PLEAT OPTION	
SP	Special Pleat (FMX only) Not available in FDA grade