



Filtertechnik

FTECH-PLEAT II

ABSOLUTE RATED PLEATED DEPTH FILTER CARTRIDGE

Ftech-Pleat II high surface area pleated depth cartridges have been developed to suit industrial processes where high levels of efficiency are required, whilst maintaining extremely low pressure losses.

In-house developments have optimised the filter media to give higher levels of porosity, and state of the art manufacturing technologies give excellent build quality.

Three media options are offered as standard, the PP, GP and MP. The PP features the specific CRY Cryptosporidium grade designed for Food and Beverage applications. All feature 100% polypropylene cage, core and end cap assembly.

Thermal welding processes seal all components, eliminating adhesives and extractables, and optimising cartridge integrity.

Ftech-Pleat II PP cartridges feature:

- Melt blown Polypropylene media
- Wide chemical compatibility
- Materials meet US FDA title 21 and USP Class VI requirements
- CRY Cryptosporidium grade

Ftech-Pleat II GP cartridges feature:

- Glass microfibre media
- Extremely high dirt holding capacity

Ftech-Pleat II MP cartridges feature:

- Nylon monofilament woven mesh media
- High flow, low pressure loss

Absolute Rated Filter Media

- Available from 0.5 to 400µm
- Consistent reliable performance

Product features

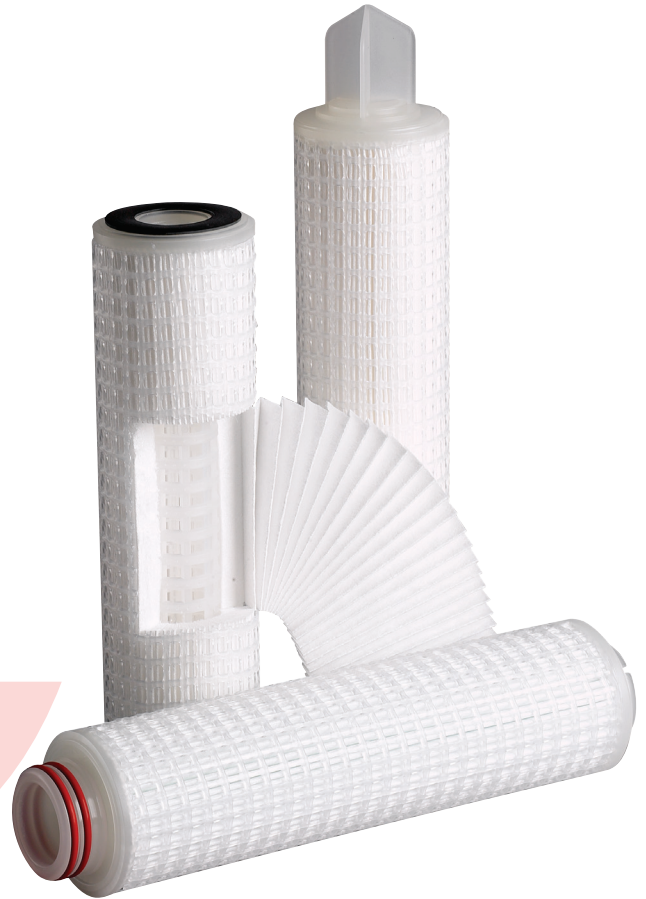
Ftech-Pleat II filter cartridges are produced using an improved manufacturing process resulting in the following features:

- One piece high strength all polypropylene support core up to 1018mm (40")
- High surface area, resulting in low clean Δp and excellent dirt holding capacity
- 100% thermally welded construction for maximum integrity and strength
- All polypropylene hardware
- Optional high strength core for improved thermal stability at continuously elevated temperatures

Suitable for most sanitisation regimes including steaming, autoclaving, hot water flush and most common sanitising agents. (Note: Steaming, autoclaving and hot water sanitisation must use the stainless steel support ring or the glass filled end-cap option)

Ftech-Pleat II FEATURES AND BENEFITS

- Absolute removal ratings for consistent and reliable performance
- PP – Wide chemical compatibility using 100% polypropylene to meet FDA requirements
- GP – Glass microfibre media gives excellent dirt holding capacity
- MP – Nylon monofilament mesh offers selective retention with the ability to be cleaned
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Cryptosporidium grade (CRY) with typical 10⁴ log reduction value for use in Food and Beverage applications
- Batch traceability



Technical data

Dimensions

- Outside Diameter: 66mm
- Core Diameter: 27mm
- Typical Surface Area: 03PP: 0.4 - 0.6m²
(per 10")
03GP: 0.36 - 0.39m²
03MP: 0.19 - 0.25m²
- Length: See ordering guide

Sterilisation and Sanitisation*1

- Steam: 121°C for 15 mins (20 cycles)
- Hot Water: 90°C for 30 mins (0.2 bar Δp max)

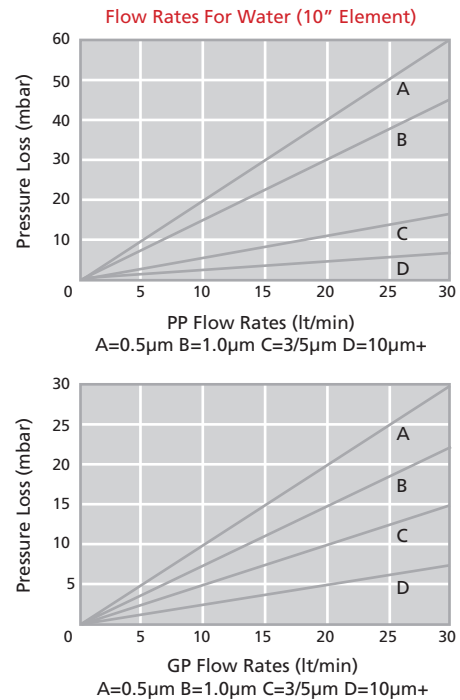
*1Applies to single open end cartridges only. For all steaming and hot water applications, the stainless steel end cap insert or Glass Filled PP end cap option must be used.

Maximum Operating Conditions

- Temperature: 80°C

Recommended Maximum Differential Pressure: 1.5 Bar

Maximum ΔP	PP Media PP Core	PP Media GFPP Core
@ 20°C	4.0	4.0
@ 50°C	1.5	2.5
@ 80°C	0.25	1.0



Ordering guide

FT-03

Media

G - Glass microfibre
M - Nylon Mesh
P - Polypropylene

Core/assembly

P - Polypropylene
D - Glass Filled polypropylene

Micron rating

CRY - Crypto
000 - 0.5µm
001 - 1.0
003 - 3.0
005 - 5.0
010 - 10
020 - 20
035 - 35
050 - 50*2
070 - 70*2
090 - 90*2
100 - 100*3
200 - 200*3
400 - 400*3

Length (DOE)

09 - 249mm
10 - 254
20 - 509
30 - 763
40 - 1017

Connections

0 - DOE
A - Code A
B - Code B*4
S - Code S
2 - Code 2
3 - Code 3
7 - Code 7
8 - Code 8
9 - Code 9

Seal

B - Buna
E - EPDM
F - FEP/Silicone (SOE only)
S - Silicone
V - Viton

Options

S - St. Insert
G - Glass filled
PP end cap

Industries and applications

- **Food and Beverage:** Bottled water, Beers, Wines, Flavours, Polishing lines, General clarification
- **Pharmaceutical:** Solvent discharge, Raw water supplies
- **Fine Chemicals:** Polymers, Acids, Bases, Solvents
- **Cosmetics:** Alcohol, Essential oils, Mouthwash solutions
- **Metal Finishing:** Plating solutions, Wash solutions, Paints, Resins, Varnishes
- **Water Treatment:** Pre reverse osmosis, UV protection, Resin trap
- **Automotive:** Wash solutions, Cooling fluid, Blanking wash oils, Electrophoretic paints, Top coats