

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, 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 Sautisation*1

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

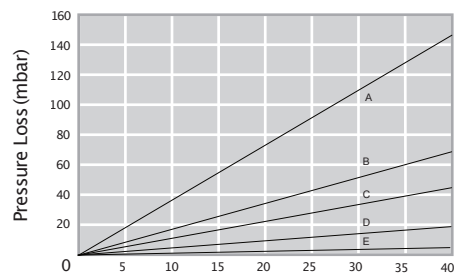
*1Applies to single open end cartridges only. For all steaming and hot water applications, the stainless steel end cap insert or Glass Filled PP end cap option must be used.

Maximum Operating Conditions

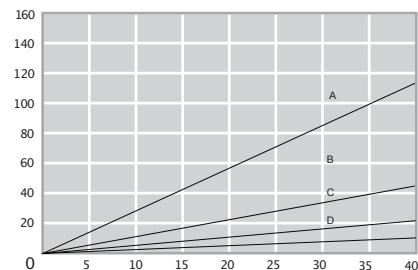
Temperature: 80°C

Recommended change-out differential pressure: 2.5 Bar

Flow Rates For Water (10" Element)



PP/XP Flow Rates (lt/min)
 A=0.5μm B=1.0μm C=3/5μm D= XP/10-50μm
 E=70/90μm



GP Flow Rates (lt/min)
 A=0.5μm B=1.0μm C=3/5μm D= 10μm+

Maximum ΔP	PP Media PP Core	PP Media Reinforced PP Core
@ 20°C	4.0	4.0
@ 50°C	1.5	4.0
@ 80°C	0.25	2.4

Ordering Guide

FT-03



Media
 G - Glass microfibre
 M - Nylon Mesh
 P - Polypropylene

Core /Assembly
 P - Polypropylene
 D - Glass filled
 polypropylene
 T - 316 StSt

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
 09 - 251mm
 19 - 495
 20 - 508
 29 - 743
 30 - 762
 39 - 990
 40 - 1016

Connections
 N - None
 A - Code A
 B - Code B*1
 2 - Code 2
 3 - Code 3
 7 - Code 7
 8 - Code 8
 0 - Code 0

Seal
 N - None
 B - Buna
 E - EPDM
 F - FEP/Silicone
 S - Silicone
 V - Viton

Options

Example: 08NF025-09NNA = Nylon media, tinned steel core, 25μm rating, single length 251mm (10") long.
 1 Code B -to fit Amazon 50 Series housings only

Industries and applications

- Fine Chemicals: Solvent trap filters
- Petrochemicals: Amine streams, Glycol solutions, Hydrocarbon (Kerosene), Wax based materials
- Coatings: Solvent and Aqueous based paints, Lacquers, Emulsions, Waxes, Inks
- General Engineering: Return condensate, High temperature water, Solvent wash systems