

# SUPAPLEAT HFC

## High Surface Area Pleated Cartridge

SupaPleat HFC high surface area cartridges utilise pleated depth media offering maximum efficiency and exceptionally high flow capabilities. Developed to suit industrial processes where high performance is required, the low pressure loss and high dirt capacity makes it the ideal choice for fine polishing applications. In-house developments have optimised the pleat pack ensuring rigidity is maintained at all flow rates.

Two media options are offered as standard, the **PP** and **GP**. The **PP** features the specific CRY cryptosporidium grade designed for Food and Beverage applications. The standard range is manufactured using all polypropylene end caps and internal support core. Amazon Filters also offers cartridges manufactured with stainless steel cage and core and nylon end fittings. These are particularly suited for applications where higher temperature ratings are required or compatibility may be an issue. Thermal welding processes seal all components, eliminating adhesives and extractables and optimising cartridge integrity.

SupaPleat HFC-PP cartridges feature:

- Melt blown polypropylene media
- Extended life versions available

- Wide chemical compatibility
- Materials meet US FDA title 21 requirements
- Meets the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004

SupaPleat HFC-GP cartridges feature:

- Glass microfibre media
- Extremely high dirt holding capacity

**Absolute Rated Filter Media**

- Available from 0.5 to 90µm
- Consistent reliable performance
- Beta 5000 Rating

**Product Features**

SupaPleat HFC filter cartridges are produced using an improved manufacturing process resulting in the following features:

- High surface area, resulting in low clean  $\Delta p$  and excellent dirt holding capacity
- 100% thermally welded construction for maximum integrity and strength, up to 1541mm (60")
- Internal support core for resistance to back pressure
- More robust stainless steel cage and core option available
- Nylon end caps option available



Amazon Filters manufacture a comprehensive range of filter housings for the SupaPleat HFC cartridges. Available in many materials and sizes to suit all flow rates, please consult our sales office for further details on our full range.

## Features and Benefits

- Absolute removal ratings for consistent and reliable performance
- Filters can be sterilised by steam or sanitised by hot water or chemicals
- **PP** - Wide chemical compatibility using materials that meet FDA requirements
- **XP** - Extended life version for more challenging applications
- **GP** - Glass microfibre media gives excellent dirt holding capacity
- Stainless steel cage and core and nylon end caps versions available for more aggressive processes
- Low maintenance - fewer number of cartridges
- Cryptosporidium grade (CRY) with typical  $10^4$  log reduction value for use in Food and Beverage applications
- All individual packing bags are anti static

See product guides for further details of test methods and rated efficiencies

## Industries and Applications

<b>Food and Beverage</b>	• Bottled water, Beers, Wines, Polishing lines, General clarification
<b>Pharmaceutical</b>	• Solvent discharge, Raw water supplies, batch transfers
<b>Fine Chemicals</b>	• Polymers, Acids, Bases, Solvents
<b>Water Treatment</b>	• Pre reverse osmosis, UV protection, Resin trap
<b>Automotive</b>	• Wash solutions, Cooling fluid, Blanking wash oils, Electrophoretic paints
<b>Oil &amp; Gas</b>	• Water injection systems, Amine streams, Glycols
<b>Power Generation</b>	• Water treatment (boiler feed sweetening), return condensate lines

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# SupaPleat HFC Technical Data

## Dimensions

Outside Diameter:		160mm
Core Diameter:		75mm
Typical Surface Area:	15PP:	8 - 10.3m <sup>2</sup>
(per 40")	15GP:	6.2 - 6.7m <sup>2</sup>
	15XP:	4.9m <sup>2</sup>

## Sterilisation and Sanitisation

Steam or Autoclave:	121°C (10 cycles)
Hot Water:	90°C for 30 mins

## Maximum Operating Conditions

Temperature:	15PP/PS:	80°C
	15PN:	100°C

Normal operating mode is inside to outside flow direction

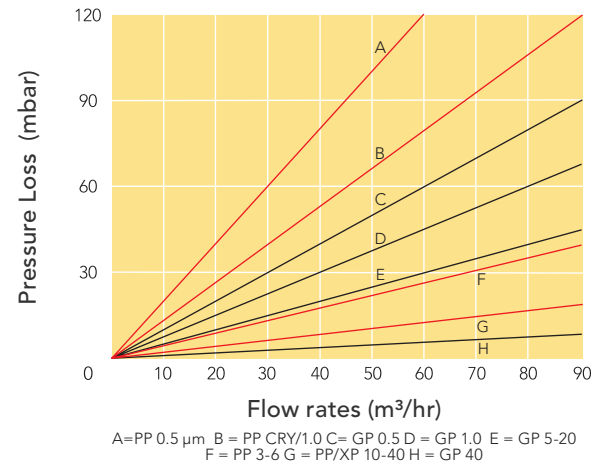
Recommended change-out differential pressure: 2.5 Bar<sup>\*1</sup>

Maximum ΔP	PP Media	GP Media
@ 20°C	3.4	3.4

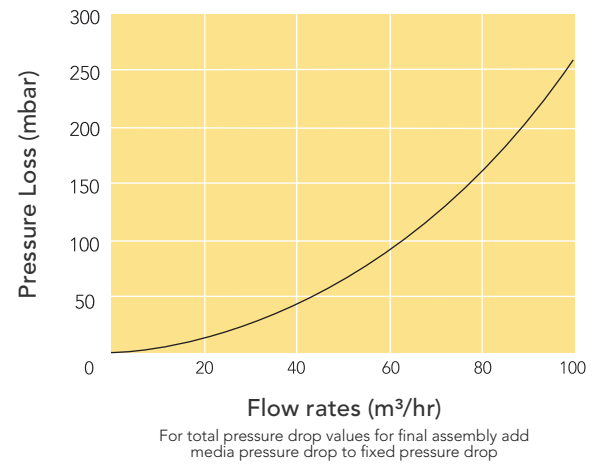
<sup>\*1</sup> Amazon Filters recommend that SupaPleat HFC cartridges are changed at a differential pressure of 2.5 bar in normal service - the operating conditions above should be treated as maximum differential pressures for short term use without causing cartridge collapse problems.

Product validation guide available on request. All SupaPleat HFC cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

## Flow Rates For Water - Media Only (40" Element)



## Fixed Pressure Drop Values for Cartridges



# Ordering Guide

15P	P	005 -	20	C	S	A	
Media	Core/Assembly	Micron Rating	Length	Connections	Seal	Branding	Options
15G - Glass Microfibre 15P - Polypropylene 15X - Extended Life Polypropylene <sup>*4</sup>	P - Polypropylene S - Polypropylene End Caps, 304 St.St Core and Cage N - Nylon End Caps, 304 St. St Core and Cage	CRY - Crypto <sup>*2</sup> 000 - 0.5μm 001 - 1.0 002 - 2.0 <sup>*3</sup> 003 - 3.0 <sup>*2</sup> 004 - 4.5 <sup>*2</sup> 005 - 5.0 006 - 6.0 010 - 10 020 - 20 040 - 40 050 - 50 <sup>*2</sup> 070 - 70 <sup>*2</sup> 090 - 90 <sup>*2</sup>	20 - 522 40 - 1038 60 - 1541	C - Flange	B - Buna E - EPDM F - FEP / Silicone S - Silicone V - Viton	A - Amazon	

Example: 15PP005-20CSA = Polypropylene media and core, 5μm rating, single length 527mm (20") long, C flange connection with Silicone seal.  
<sup>\*2</sup> Polypropylene media only <sup>\*3</sup> Glass microfibre media only <sup>\*4</sup> Available for all Polypropylene micron ratings except the CRY.

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