

# SUPAPLEAT LDP

## Nominal Rated Pleated Depth Filter



SupaPleat LDP high surface area pleated depth cartridges are suitable for a wide range of industrial processes. In-house developments have resulted in a filter media that provides optimum filtration efficiency, on-stream life and pressure drops. State-of-the-art manufacturing technologies provide a cartridge with excellent build quality.

SupaPleat LDP filters are available with a standard cage or, for enhanced durability, we offer a more robust outer cage. Both options feature 100% polypropylene cage, core and end cap assembly.

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



SupaPleat LDP filter cartridges are produced using advanced manufacturing processes resulting in the following features:

- Melt blown polypropylene media
- One piece all polypropylene support cage and core up to 1018mm (40")
- Materials that meet US FDA title 21 and USP Class VI requirements
- Meets the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004
- Available from 0.2 to 90µm
- Consistent reliable performance
- Suitable for most sanitisation regimes including steaming, autoclaving, hot water and most common sanitising agents.

(Note: Steaming, autoclaving and hot water sanitisation must use the Reinforced Polypropylene End Cap option)

## Features and Benefits

- 100% polypropylene construction provides wide chemical compatibility and meets FDA requirements
- High surface area, resulting in low clean differential pressure and excellent dirt holding capacity
- 100% thermally welded construction for maximum integrity and strength
- Available with standard or more robust cage
- Optional high strength core for improved thermal stability at continuously elevated temperatures
- As standard all bags are anti static

## Industries and Applications

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

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# SupaPleat LDP Technical Data

### Dimensions

Outside Diameter:	66mm
Core Diameter:	27mm
Typical Surface Area: (per 10")	0.4 - 0.6m <sup>2</sup>

### Sterilisation and Sanitisation\*<sup>1</sup>

Steam:	121°C for 60 mins (240 cycles)
Hot Water:	90°C for 30 mins (0.5 bar Δp max)
* <sup>1</sup> Applies to single open end cartridges only. For all steaming and hot water applications, the Reinforced Polypropylene End Cap option must be used.	

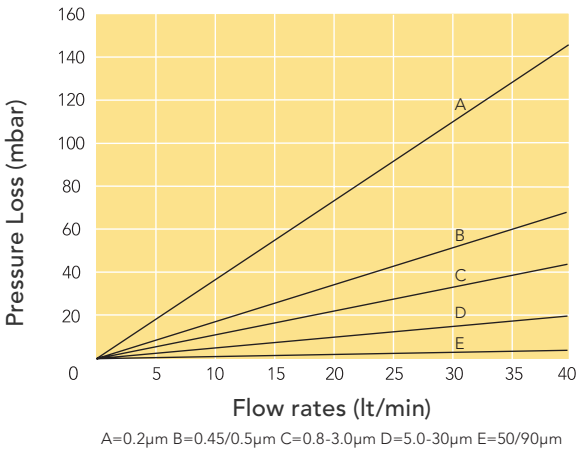
### Maximum Operating Conditions

Temperature:	80°C
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Recommended change-out differential pressure: 2.5 Bar

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

Flow Rates For Water (10" Element)



Product validation guide available on request. All SupaPleat LDP cartridges are manufactured under strict control with lot number allocation and full traceability on all components.

## Ordering Guide

03P	P	NOV -	20	3	E	A	
Media	Core/Assembly	Micron Rating	Length	End Caps	Seal	Branding	Options
03P - Polypropylene	P - Polypropylene D - Reinforced Polypropylene S - St.Steel B - PP Core, PP Single Piece Hard Cage C - Reinforced Polypropylene Core, PP Single Piece Hard Cage E - Stainless Steel core, PP Single Piece Hard Cage	N0Y - 0.2µm N0W - 0.45 N0V - 0.5 N0T - 0.8 N0R - 1.2 N0P - 2.0 N0N - 3.0 N0M - 5.0 N0L - 10.0 N0K - 15.0 N0J - 20.0 N0H - 30.0 N0G - 50.0 N0E - 90.0	05 - 122mm 09 - 249 10 - 254 20 - 509 30 - 763 40 - 1017	0 - DOE A - Code A B - Code B* <sup>3</sup> S - Code S 2 - Code 2 3 - Code 3 7 - Code 7 8 - Code 8 9 - Code 9	B - Buna E - EPDM F - FEP/Silicone (SOE only) S - Silicone T - PTFE V - Viton	A - Amazon	G - Reinforced Polypropylene End Cap
Example: 03PPN0V-203EA = Polypropylene media and core, 0.5µm rating, double length (20") long, code 3 connections with EPDM seal. <sup>3</sup> - Code B to fit Amazon 50 Series housings only							

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