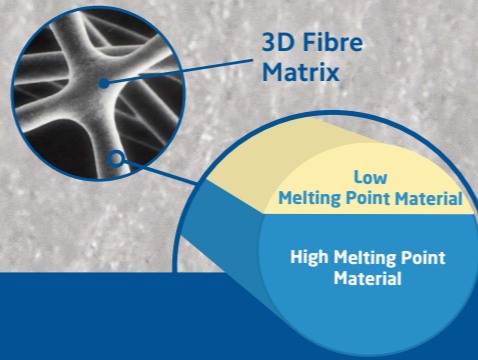


Viscous Fluid Filtration



FDA
Compliant Materials

Bicomponent Polypropylene Structure



CP2 1-350 micron

Setting a new benchmark in adhesive, paint, ink and other viscous fluid applications, the CP2's bicomponent polypropylene structure provides accurate particulate classification, whereby unwanted contaminants are consistently removed by the cartridge and desirable characteristics can pass through. The rigid self-supporting matrix, prevents the release of previously trapped particles, morphing of gels and the phenomenon of micron rating creep, even under high differential pressures.

Typical Applications of the CP2

Adhesives & Resins

The robust construction of the CP2, enables the cartridge to operate reliably under high differential pressures in highly viscous applications.



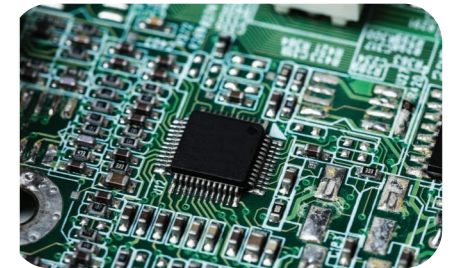
Paints & Inks

Consistent and reliable filtration delivering repeatable results across paints, lacquers, inks, oils and varnishes.



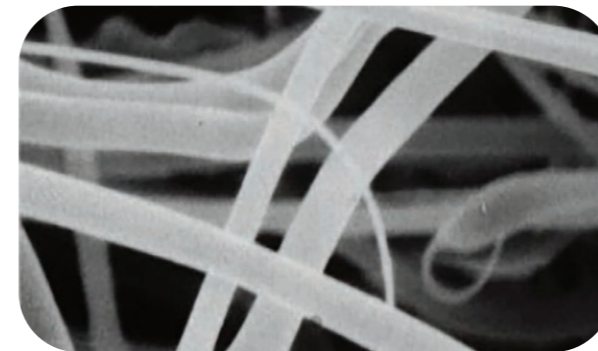
Electronics

The surfactant-free finish results in a cleaner cartridge, with a quick rinse-up required for multiple electronic pure water applications.



Technological Advancements

The new CP2 cartridge has some impressive structural and finishing technologies to create a more efficient and consistently accurate filtration solution, compared to older technologies.



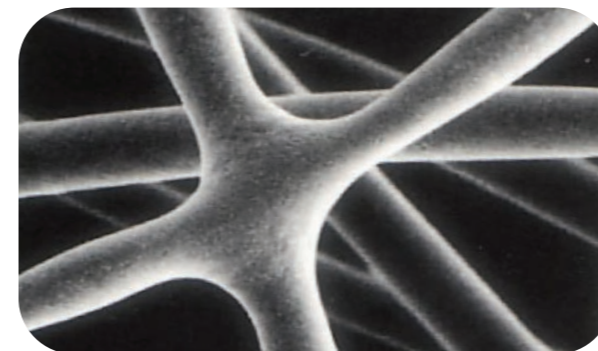
Old Technology

Structure

The older, unbonded structure causes the free movement of fibres, which then results in increased media migration and push through of previously trapped particles.

Fibre Diameter

An inconsistent fibre diameter construction decreases the cartridge's ability to offer precise classification.



New Technology

Bicomponent 3D Matrix

Only bicomponent polypropylene fibres, developed and patented by JNC, are used. Each contact point of the fibres is thermally bonded to form a rigid three dimensional fibre matrix that has uniform porosity and a high tolerance for pressure. This technology allows for longer service life and higher throughputs.

Fibre Diameter

The diameter of the structural fibres is changed for every grade, and the grades are clearly differentiated from a nominal filtration size of 1 µm to 350 µm.

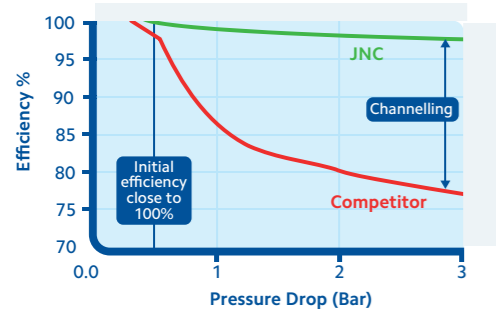
Surfactant Free

The initial start up and filtering of liquids is more efficient as unnecessary pre-production flushing delays are avoided since a spin finish is not used.

Specifications of the CP2

The CP2 delivers clear benefits due to the bonded nodes, fine fibre diameter and uniform graded porosity. Forming a rigid structure that is capable of removing oversized contaminants, agglomerates and deformable gels the CP2 allows classification of particulate; separating the unwanted contaminants from the desired particles.

Consistency under Pressure



Typically, as pores become blocked and flow finds alternative paths, pressure drop increases. This increase in ΔP (Delta P - differential pressure) can cause channelling and distortion.

The CP2, with its nodally fused structure, resists high pressures to maintain integrity for consistent filtration preventing the release of previously trapped contaminants, push through of gels and rating creep.

Comparison Chart*

Use the table below to easily identify the CP2 product for your application. To make product selection as simple as possible, the table highlights common industry filters against the corresponding CP2.

Grade	CP2 Nominal μm	ProBond™ Nominal μm	Micro-Klean™ Nominal μm
CP2-01	1	-	1
CP2-03	3	-	3
CP2-05	5	2	5
CP2-10	10	5	10
CP2-25	25	10	25
CP2-50	50	25	50
CP2-75	75	50	-
CP2-100	100	-	75
CP2-200	200	75	100
CP2-350	350	125	125

* Comparisons are for general guidance only and application parameters must be checked for suitability.

Viscosity

One of the biggest factors affecting the configuration of filtration equipment is the viscosity of the filtrate, i.e. the higher the viscosity, the slower the flow and the larger the system requirement. For filtrate other than water, divide the flow rate by the factors shown.

e.g. Filtering printer's ink with a viscosity of 2000 cP at 50 lpm, would require equipment capable of filtering water at 625 lpm.
 $(50 \text{ lpm} \div 0.08 = 625 \text{ lpm})$

Viscosity (cP)	Conversion Factor	Viscosity (cP)	Conversion Factor
1	1	1,500	.11
100	.85	2,000	.08
200	.58	4,000	.05
400	.35	6,000	.035
600	.25	8,000	.026
800	.17	10,000	.021
1,000	.16		

Micro-Klean™ is a registered trademark of 3M

ProBond™ (Fulflo®) is a registered trademark of Parker Hannifin Corporation, Parker Intangibles, LLC

Key Features

- Thermally-bonded bicomponent fibre construction ensures no fibre release
- Silicone-free construction
- Consistent performance throughout filter life at the given micron size

Materials of Construction

Filter Media
Bicomponent polypropylene fibres

Configurations

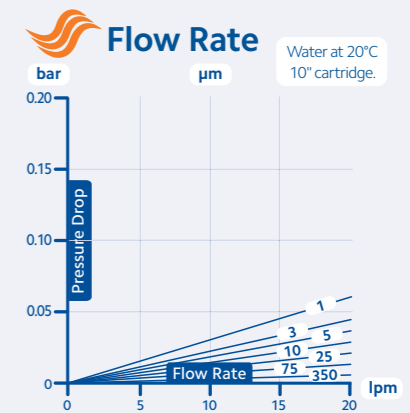
Micron (μm)

01=1	03=3	05=5	10	25	50
75	100	200	350		

Length (")

248=9¾	254=10	496=19½	508=20
743=29¼	762=30	991=39	1016=40

End-cap options available. Contact Filerder for details.



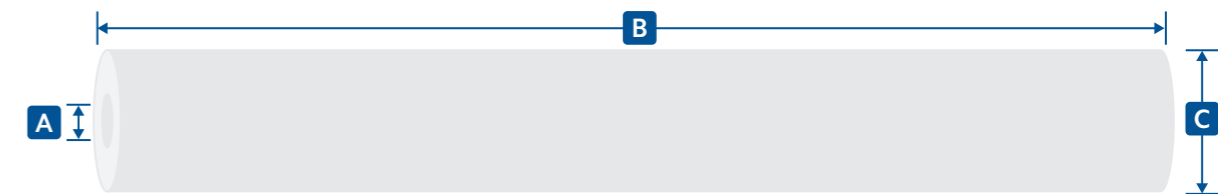
Specification

Efficiency
85%

Max. Operating Temperature
80°C

Max. Operating Differential Pressure
5.5 bar at 20°C

Dimensions



	Dimensions (mm)		
	A	B	C
9¾	30	248	62
10	30	254	62
19½	30	496	62
20	30	508	62
29¼	30	743	62
30	30	762	62
39	30	991	62
40	30	1016	62

Part Number

Code	Micron Code	Diameter (mm)		Length (mm)
		Inner	Outer	
CP2	01, 03, 05, 10, 25, 50, 75, 100, 200, 350	30	62	248, 254, 496, 508, 743, 762, 991, 1016

e.g. CP2-25-30*62 *248