

Microcap™ GPNSD

Nano-Spun Polypropylene Depth Capsule Filters



Microcap™ GPNSD general service grade capsules are designed for the removal of particulate contaminants from chemicals, fermentation broths, buffers, biologicals, beverages, and other liquids.

Constructed with nano-spun polypropylene depth media, these capsules offer a cost-effective solution by removing large quantities of contaminants early in the process, thereby protecting high-value filters used downstream. They are also suitable as standalone filters for clarification or particle removal in less critical applications.

MicrocapTM GPNSD capsule filters achieve 99% retention of contaminants at the rated pore size, with pore size options ranging from 0.5 to 100 µm.

Ordering Information

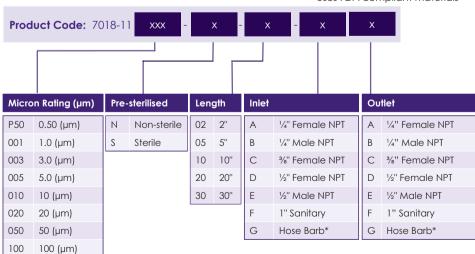
Typical Applications

MicrocapTM GPNSD capsules are recommened for clarification & prefiltration of:

- High Purity Chemicals
- Fermentation Broths
- · Wine, Beer, Juices
- Buffers & Biologicals
- Container Wash Solutions
- Inks & Dves
- CMP Slurries
- Water Purification

Features and Benefits

- Wide range of high efficiency retention ratings
- · High capacity for long life
- Designed for minimal extractables
- Non-fibre releasing
- Uses FDA compliant materials



Maximum Operating Parameters

	Liquid Operational Pressure	5.52 bar at 20°C (80 psi at 68°F)
	Gases Operational Pressure	4.14 bar at 20°C (60 psi at 68°F)
	Operating Temperature (water)	43°C at 2.07 bar (110°F at 30 psi)
	Reverse Differential Pressure	1.38 bar at 20°C (20 psi at 68°F)
	Recommended Changeout Pressure	2.41 bar (35 psid)

Sanitisation and Sterilisation

Chemical Sanitisation	Performed using industry standard concentrations of hydrogen peroxide, peracetic
	acid, sodium hypochlorite and other selected chemicals.

Specifications

Materials of Manufacture

Housing: Polypropylene

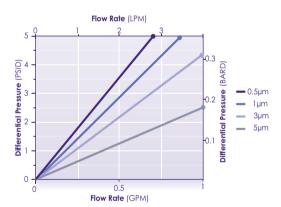
Filtration media: Melt-Blown Polypropylene

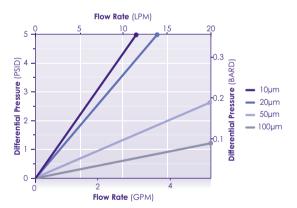
Depth Media

Media support: Polypropylene
End caps: Polypropylene
Sealing method: Thermal bonding

Clean Water Flow Rates

A 2" capsule with 1" sanitary inlet and outlet point, exhibits the flow- ΔP characteristics indicate below, for solutions with a viscosity of 1 centipoise.





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