

MicroFine Membrane filter elements

MicroFine filter cartridges are provided with a pleated absolute membrane made from polietheresulfone or nylon 66 both hydrophilic, to offer the best performance in aqueous liquid service.

A version provided with a pleated absolute membrane made from PTFE is available for tank sterile venting, PTFE is also suitable for gas and solvent filtration mostly in pharmaceutical applications.

Please select the most appropriate filter element from tables 1, 2 and 3 taking into account the actual working conditions of your process.

Our staff is always at your disposal for technical and commercial support, please do not hesitate to contact us.

Table 1 - MicroFine materials and compatibility

ТҮРЕ	Membrane material	Structure material	Main applications	
MFPS	polietheresulfone - hydrofilic	polypropylene	bottled water, acid-bases-oxydizing agents, dialysis pure water	
MFPE	polietheresulfone - hydrofilic (electronic grade)	polypropylene	chemicals, deionized water in electronics	
MFN	nylon 66	polypropylene	water in pharma and cosmetic	
MFNP	nylon 66 electrostatically charged	polypropylene	pirogens removal	
MFNV	nylon 66	polypropylene	for wine filtration	
MFT	PTFE - hydrophobic	polypropylene	sterile venting, solvents, sterile compressed air and gases	

Table 2 - MicroFine working conditions

TYPE	Available micron ratings	Filter area per 10" module	Autoclave sterilization at 121°C	"In situ" sterilization at 121°C	Max working temperature
MFPS	0.1 - 0.2 - 0.45 - 0.65 micron	0,5 m²	max 40 hours	max 40 hours	65°C fluid water
MFPE	0.03 - 0.1 micron	0,5 m²	max 40 hours	max 40 hours	65°C fluid water
MFN	0.2 - 0.45 - 0.65 micron	0,5 m²	max 40 hours	max 40 hours	65°C fluid water
MFNP	0.2 - 0.45 - 0.65 micron	0,5 m²	max 40 hours	max 40 hours	65°C fluid water
MFNV	0.45 - 0.65 - 0.80 - 1.20 micron	0,5 m²	max 40 hours	max 40 hours	65°C fluid water
MFT	0.05 - 0.1 - 0.2 - 0.45 - 1.0 micron	0,5 m²	max 40 hours	max 40 hours	65°C fluid water

Table 3 - MicroFine, integrity test data

ТҮРЕ	Micron rating	Fluid	Diffusion pressure	Diffusion flow	Extractables in water
MFPS001	0.1 µm	Water	2.76 bar	< 12 cc/min	< 25 EU/ml
MFPS002	0.2 µm	Water	2.07 bar	< 12 cc/min	< 25 EU/ml
MFPS045	0.45 µm	Water	1.38 bar	< 10 cc/min	< 25 EU/ml
MFPS065	0.65 µm	Water	0.90 bar	< 5 cc/min	< 25 EU/ml
MFN002	0.2 µm	Water	2.20 bar	< 30 cc/min	< 25 EU/ml
MFN045	0.45 µm	Water	1.70 bar	< 20 cc/min	< 25 EU/ml
MFN065	0.65 µm	Water	0.90 bar	< 20 cc/min	< 25 EU/ml
MFT91	0.1 µm	60% IPA	1.38 bar	< 15 cc/min	< 25 EU/ml
MFT92	0.2 µm	60% IPA	0.90 bar	< 15 cc/min	< 25 EU/ml
MFT94	0.45 µm	60% IPA	0.62 bar	< 10 cc/min	< 25 EU/ml

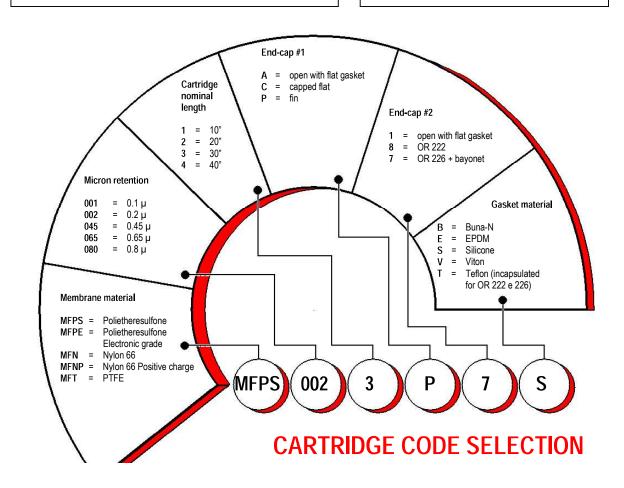
All **MicroFine** are individually tested to check integrity before final packing.

Production batch and micron rating are impressed on each element to guarantee product traceability.

The component materials of **MicroFine** cartridges, meet the current test criteria:

United States code of Federal Regulations Title 21 USP24 Class VI – 121°C

Additionally, the component materials have been recognized as suitable for use in articles intended for repeated food contact per 21 CFR



AKRO SRL - BRASOV