

# Microfine™ Bag Filters

High quality bag filters for consistent and cost effective filtration



Microfine Filters™ specializes in providing a complete range of filter bags for a myriad of applications across multiple industries. From economical sewn filter bags for standard applications to welded, multilayered bags for demanding applications; Microfine Filters™ is helping customers reduce process costs through its development of a unique range of filter bags and elements that offer a compelling, cost effective alternative to more expensive filter bags and cartridge filter systems.

PP, PE and NN Series Filter Bags are manufactured from high performance fibres and do not contain any adhesives, binders or silicone. The fibre migration is controlled through thermal treatment of external surface that binds all the fibres together.

## Pore Sizes

Filter Bag	.5	1	5	10	25	35	50	60	75	100	125	150	200	250	300	400	500	600	800
PP	•	•	•	•	•		•		•	•		•	•						
PE	•	•	•	•	•		•		•	•		•	•						
NN	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AP	•	•	•	•	•		•												
OP			•	•	•		•		•	•									
HP	•	•	•	•	•														

AP, OP and HP Series Filter Bags are made from special polypropylene microfibres. This unique material composition allows for a higher efficiency, with graded pore-size distribution creating absolute filtration. Thermally bonded microfibres create a seamless filter bag that has high tensile strength, providing superior resistance to channelling, unloading, bypass and other forms of traditional leakage that result from pulsating fluids.

## Total Performance

Microfine Filters is a manufacturer of filtration products to industries in which filtration is considered a critical part of the manufacturing process. We supply a complete line of products and services to help you cost effectively satisfy all your filtration requirements from a single source.

## Quality Assurance and Standards

Our goal is to ensure our customers the greatest possible value for their filtration dollar. Our state of the art manufacturing facility and quality management system both meet ISO 9001:2008 standards. Each operation from assembly and test to cleaning, drying, and packaging is done in appropriately rated clean rooms.

## Media and Pore Sizes

The Pore Sizes table represents the media and pore sizes available in Microfine Bag Filters. Find your media and then move across the row to locate available pore sizes.

## Particle Removal Efficiency and DP vs Flow Rate Performance

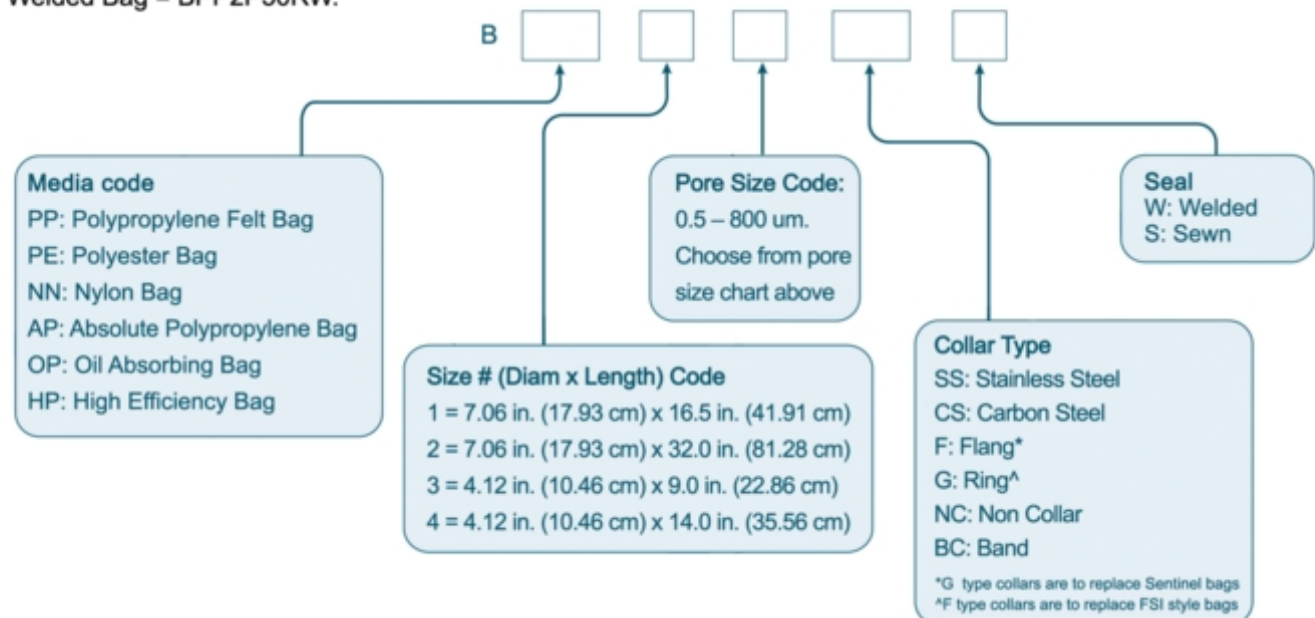
Filter	Micron Rating (µm)	Filtration Efficiency					dP (bar) @10 m³/h. Size 2 Bag
		>60%	>90%	>95%	>99%	>99.9%	
AP	0.5	-	-	0.2	0.5	1	0.42
	1	0.2	0.5	0.8	1	3	0.18
	5	1	2	3	5	15	0.08
	10	2	4	5	10	25	0.07
	25	5	10	15	25	35	0.06
	50	15	25	35	50	75	0.05
OP	5	1	2	3	5	10	0.44
	10	2	3	5	10	25	0.17
	25	5	10	15	25	50	0.09
	50	10	25	35	50	75	0.08
	75	15	25	50	75	100	0.07
	100	25	50	75	100	150	0.06
HP	0.4	-	-	0.15	0.4	1	0.27
	0.5	0.1	0.3	0.45	0.5	2	0.18
	1.5	0.2	0.6	0.8	1.5	5	0.45
	3	0.8	1	2	3	5	0.18
	5	1	2	3	5	15	0.09
	10	2	4	5	10	25	0.08
	25	10	15	20	25	35	0.06

## Compatibility and Temperature Limits for Standard Bag Materials

Media	Organic Solvents	Animal, Vegetable, and Petro Oils	Microorganisms	Alkalies	Organic Acids	Oxidizing Agents	Mineral Acids	Maximum Operating Temperature
Polypropylene	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Good	93 °C (200 °F)
Polyster	Excellent	Excellent	Excellent	Good	Good	Good	Good	150 °C (302 °F)
Nylon	Excellent	Excellent	Excellent	Good	Fair	Poor	Poor	150 °C (302 °F)

## Ordering Information

The filter bag order number is made up of several variables from media type and pore size to ring seal, bag size, and options. For example: Bag Filter, Polypropylene Media, 7.06" Diameter x 32.0" Long, 50 Micron Pore Size, Poly Ring Seal, Welded Bag = BPP2P50RW.



### Microfine Filters

For Technical queries, please drop us an email at: [technical@microfinefilters.com.tw](mailto:technical@microfinefilters.com.tw)

For all matters related to sales or distributorship please contact us at: [sales@microfinefilters.com.tw](mailto:sales@microfinefilters.com.tw)

For more details visit our website: [www.microfinefilters.com.tw](http://www.microfinefilters.com.tw)