



Filter Bags Catalog



Make industries
Nature-Friendly



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KÖHLER Filter Bags

➤ Features

KÖHLER filter bags comply with the industry standard of a bypass-free filter bag construction. They are available in polypropylene and polyester. KÖHLER filter bags are suitable for a wide range of applications such as the filtration of liquid painting dyes ,E-Coat, varnishes, inks, chemicals, process water and many more.



➤ Product Description

- Fully-welded construction with patented KÖHLER seal ring provides
- 100% bypass-free filtration
- The pressure-activated KÖHLER seal ring provides a flexible, chemically resistant seal which adapts to any bag filter housing
- Material is free from silicone and crater-forming substances
- Special surface treatment significantly reduces fiber release
- Stable and flexible welded seams that adapt to the restrainer basket
- The handles in the ring make replacing the filter bag quick and easy

➤ Application

Köhler filter bag series product widely used in all of the industries which directly needs liquids as the raw material in a wide ranges from water which could be purified from the seas, rivers, underground or waste waters or any chemical liquids such as liquid dyes used in painting lines or milk processing lines in *diary food industries*.

Köhler filter bags also could be used in combination with other kinds of **Köhler filters** to purify industrial waste products enabling to recycle it or make it clean and nature friendly to be released safely as waste products into the nature.

So in all of the industrial fields including electronics, semiconductors, chemical, phaimaceutica1 , food, beverage, painting, paper making, automobile, printing ink, water treatment etc. would be necessary.



PE / PEXL Filter Bag

Technical Parameter :

- Material : food grade polyester non woven felt-needle punched felt
- Micron rating: 0.5-200μm
- Features : 3D space inside of non-woven fibers, capture small particle directly, high efficiency, low cost, large capacity of dirty particles, excellent air permeability.
- Material: Polyester extended life felt
- Features : made by more micro fiber. Dirty capacity can be 4 times than general felt. Longer life time, Larger capacity.



PP / POXL Filter Bag

Technical Parameter :

- Material: food grade polypropylene non woven felt-needle punched felt
- Micron rating: 0.5-200μm
- Features: 3D space inside of non-woven fibers, capture small particle directly, high efficiency, low cost, large capacity of dirty particles, excellent air permeability.
- Material: polypropylene extended life felt
- Features: made by more micro fiber. Dirty capacity can be 4 times than general felt. Longer life time, Larger capacity.



➤ Technical Specification:

Material

Polypropylene
Polyester

Retention Rating

0.5,1,10,25
50,100 , 200~m

Max. Operating Temperature

polypropylene : 90 °c (194 °F)
polyester : 150 °c (302 °F)

Max. Differential Pressure

2.6bar (37.7psi)

Recommended pressure
for disposal

0.8-1.6 bar
(11.6-23.2 psi)

Replacement of the filter would be
easy by using handles in the ring

Seal Rings types

- 1- welded polypropylene
- 2- polyester KÖHLER seal ring
- 3- carbon steel zinc plated snap ring
- 4- 304 stainless steel snap ring
- 5- no ring

Size

- 01: 180 x 430 mmL(0.7 x 17"L)
- 02: 180 x 810 mmL(0.7 x 32"L)
- 03: 100 x 230 mmL(OA x 4"L)
- 04: 100 x 380 mmL(OA x 20"L)
- 05: 150 x 510 mmL(0.6 x 20:L)

Filter area

- 01: 0.24 m2 (2.6 ft2)
- 02: OA8 m² (5.2 ft²)
- 03: 0.08 m2 (0.9 ft2)
- 04: 0.16 m² (1.7 ft²)
- 05: 0.24 m2 (2.6 ft)

Max-Flow rate

- 01: 20 m3/h (88 GPM)
- 02: 40 m3/h (176 GPM)
- 03: 6 m3/h (26 GPM)
- 04: 12 m3/h (53 GPM)
- 05: 20 m3/h (88 GPM)

NMO Nylon Filter Bag

Technical Parameter :

- Material: made of monofilament nylon mesh
- Micron rating: 1-1250µm
- Features: Use tire principle of surface filtration; non-deformable single fiber is made into mesh according to special weaving type, and is welded together to add mesh strength. The impurities can be hold back onto tire filtering surface, suites the rough particle filtration.
- Advantages : can be repeatedly cleaned, it has lower consumption cost.



➤ Size Option

SIZE	Max. flow (m³/h)	FILTER AREA (m²)	VOLUME (L)	Diameter (Inch)	Length (Inch)
#01	20	0.25	8.0	7	17
#02	40	0.50	17.0	7	32
#03	6	0.09	1.30	4	9
#04	12	0.16	2.50	4	15
#05	18	0.20	3.80	6	20

AGF Absolute Filtration Efficiency Filter Bag

Technical Feature:

- Material: 8-12 layers PP; Melt-Blown Polyester
- 99% absolute filter efficiency, density change material to dirt holding capacity increased greatly and prolong the life of.
- Double outer protective layer to prevent the friction caused by the fiber loss problem with basket.
- All the bags are in accordance with the United States Food Administration (FDA) approved materials, suitable for food, beverage, and pharmaceutical industries.
- Integrated structure and unique bonding method of welding the bottom, welding sealil 1g method, is a stronger, more flexible.
- 100% pure melt blown polypropylene structure, not adding any resin, adhesive or surface treatment.
- 100% hot-melt welding technology



Application :

- Beer, wine, whiskey and other beverage filter
- Removal of fine particles of parts cleaning process
- Final filtration porcelain 1
- Final filter - vinegar
- Scavenging of active carbon
- Final filter hydraulic oil and lubricating oil

➤ AGF filter Grade by Test Result:

Model	Particle size when the different filtration efficiency					Size02@ 10m ³ /hr
	> 60%	> 90%	> 95%	> 99%	> 99.9%	
AGF51	-	-	0.15	0.45	I	0.25
AGF53	>80@0.15	0.3	0.45	0.5	2	0.17
AGF55	I	3	6	10	12	0.06
AGF57	8	13	16	20	25	0.02

Remark: Independent laboratory accreditation of filtration efficiency

Oil Absorbing Efficiency Filter Bag LCR-100

Technical Feature:

- Oil absorb bag widely used for highly precision media filtration .
- Hydrophobic oil filter bag cotton has excellent lipophilicity oil absorption speed of the oil absorption for 15-20 times, the weight of water content less than 0.1 times. High acidity, organic solvent resistance , good tensile strength. The liquid hydrocarbons in
- non-phacoemulsification trace clearance. This bag can not only remove oils that can effect the required different levels of clearance of particles that have the dual function is the best filtration products electroplating industry.
- These bags are available in two series, LCR-100 and LCR-500 .
- LCR-100 is made of 100% polypropylene melt-blown microfiber, 3 layers structure for 97% filter efficiency can hold up 250g dirt.
- High chemical resistance, Easy use. Can cleaning: unwanted oil, impurities, soft particles , gelatinous nature, protein.
- ●Application: electrophoretic paint coating line filter, wastewater treatment, water recycling , circuit board production automobile painting production line, metal casting, ultrafiltration of protection filter, spraying water to remove oil



filter. The petroleum chemical industry, light

- industry, metallurgy, food, pharmaceutical , electronic field of
- solid-liquid separation and processing of automobile industry of pretreatment of cleaning, electrophoresis paint, spray rinse water, circulating water filtering paint industry, resin solvent purification treatment .

Oil Absorbing Efficiency Filter Bag LCR-500

Technical Feature :

- LCR-500 are made entirely of welded materials, without any joint seam, very high filtering efficiency.
- LCR-500 series bags feature a pleated design with different efficiency ratings available to choose from. Great for filter difficult media like gels.
- LCR-500 can hold up 1000g dirt with 95% -99% filtering efficiency.
- Use patent and transporting layers design, make the filtering area be up to max. Improve working performance and make operation cost lower.
- Replacing time-easier, faster, lower labor cost.
- Application: petrochemical , light and food, metallurgy, electronics, pharmaceutical, electrophoretic paint, paint.

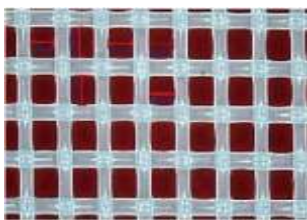


➤ Filter Bags Technical Parameters

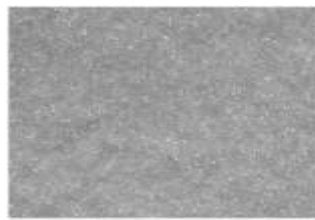
Bags Media Materials:



Polypropylene



Nylon



Non-woven



Oil Absorb Material

Bag Media Specification:

Filter Media	TEMP (°C)	WATER	Microbe	Organic Solvent	Aliphatic	Aromatic	Weak alkali	Weak acid	Strong alkali
Polypropylene	90	✓	✓	✓		✓	✓	✓	
Polyester	160	✓	✓	✓	✓	✓	✓	✓	
Nylon	160	✓	✓	✓	✓	✓	✓		

Rings Materials:



Stainless steel Ring



Nylon Ring



Polyester Ring



Galvanized Steel Ring



Polypropylene Ring

Standard Sizes:

SIZE	Max. flow (m ³ /h)	FILTER AREA (m ²)	VOLUME (L)	Diameter (Inch)	Length (Inch)
#01	20	0.25	8.0	7	17
#02	40	0.50	17.0	7	32
#03	6	0.09	1.30	4	9
#04	12	0.16	2.50	4	15
#05	18	0.20	3.80	6	20

Filter Bag Performance:

Material	Material	Structure	Micron(μ m)	Production Type	Filter Type	Temp
PO	polypropylene	Needle	115/10/25/50/75/100/150/200	Seam/Weld	Deep	80
POXL	polypropylene extended life felt		115/10/25/50/75/100	Seam/Weld	Deep	80
PE	polyester		1/5/10/25/50/75/100/150/200	Seam/Weld	Deep	170
PEXL	polyester extended life felt		115/10/25/50/75/100/150/200	Seam/Weld	Deep	170
NT	Nomex		115/10/25/50/75/100	Seam	Deep	220
PTFE	polytetrafluoroethylene		115/10	Seam	Deep	270
NMO	Nylon	Signal Monofilamenx	1/5/10/25/50/75/100.....1250	Seam	Surface	170
100	polypropylene	Melting and Blowing	115/10/25/50	Seam/Weld	Absorb	80
500	polypropylene		115/10/25/50	Seam/Weld	Absorb	80

➤ KÖHLER Filter Bags Coding

