

Filter Bag

WATER ABSORBENT FILTER BAGS

**FILTER
CONCEPT**TM
www.filter-concept.com



PRODUCT CATEGORIES

● FCISEM- Water Absorbent Matrix Bags

FCI SEM Matrix Series use a new type of specially formulated and highly effective water absorbent. In its pure form, such absorbent is capable of absorbing water from oil up to 100 times of its own dry weight. However in its pure form, such water absorbent tends to be unstable. Once exposed, it quickly absorbs moisture from open air. To stabilize the water absorbent for commercial applications, we mix certain percentage of Polyester fiber into the water absorbent to formulate our unique FCI SEM Matrix media, which is capable of absorbing and retaining water content up to 50 times of its own dry weight.

In addition to a standard line of FCI SEM Matrix bags, we will launch FCI SEM Designer filters simultaneously. Customers are encouraged to contact us with application specifications. As usual, we will custom make Designer FCI SEM filters that are tailored to meet each individual customers' application requirements.

TYPICAL APPLICATIONS

- Auto coating & paint
- Water purification & processing
- Pharmaceutical
- Food & beverage
- Bulk & fine chemicals
- Electronics

Water Absorbent Matrix Bags

FEATURES

- Superior water absorbing capability : Absorb and retain water up to 50 times of its own dry weight.
- Dual purpose : Not only remove water from oil, but also retain contaminants of 1, 5, 10, 25 and 50 micron.
- FDA compliant none-woven felt. 100% free of silicon contamination
- Single & multiple layer depth media composites
- 1 ~ 200 micron range, nominal rating
- Patented SDS & STS pressure seal rings, steel snap-fit rings
- Broad chemical compatibilities
- Fiber migration & extractable free media treatment
- Large contaminant retention capacities, extended service lives
- Change-out pressure differential 0.10 MPa, Max. 0.16 MPa

TECHNICAL SPECIFICATIONS

Filter Size	Material Availability	Material Classification	Seam Treatment	Length (mm)	Diameter (mm)	Filter Area (m ²)	Volume (Liter)	Housing Used
Size 1	Water Absorbent	Non-woven	Welded	420	180	0.25	8.00	FCISBF-M-717S1/S2/S3
Size 2	Water Absorbent	Non-woven	Welded	820	180	0.5	17.50	FCISBF-M-732S1/S2/S3
Size 3	Water Absorbent	Non-woven	Welded	230	100	0.09	1.50	FCISBF-M-410S1/S2/S3
Size 4	Water Absorbent	Non-woven	Welded	380	100	0.15	2.50	FCISBF-M-417S1/S2/S3
Size 5	Water Absorbent	Non-woven	Welded	510	150	0.25	8.00	FCISBF-M-620S1/S2/S3

Filter Concept Inc.,

(An ISO 9001 : 2000 Certified Company)

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MEMBER
 Water
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ASSOCIATION

