LIQUID BAG FILTERS

SCS Bag Filter

Three-layer depth filter bag with a natural cotton core between two spunbond outer layers. Combines 0.5–0.8 µm fine particle retention with free oil absorption in oils and similar dense process liquids; made to process requirements.



CONSTRUCTION	PRECISION	MAX. TEMPERATURE	CHANGE-OUT ΔP
3 layers	**0.5–0.8 µm**	**90 °C**	**2–2.5 bar**
Spunbond · cotton · spunbond	In dense liquids	Continuous operation	Recommended change-out pressure

Technical specifications

Construction	Three-layer lamination: spunbond outer · natural cotton core · spunbond inner
Outer and inner layers	Spunbond nonwoven fabric; mechanical strength and fibre migration protection
Middle layer	Natural cotton; high dirt-holding capacity and lipophilic oil absorption
Micron rating	0.5–0.8 µm (in dense liquids; varies by process)
Filtration type	Depth filtration
Max. operating temperature	90 °C (continuous)
Recommended change-out ΔP	2–2.5 bar
Chemical resistance	Moderate to common acids and alkalis · limited to strong solvents
Oil retention	Non-emulsified free oil; not effective with emulsified oil
Dimensional stability	Spunbond layers stop the cotton core from losing shape when wet
Silicone content	Silicone-free natural structure
Usage type	Single use
Production type	Made to order for each process (not a stock item)

Layer structure

LAYER	MATERIAL	FUNCTION
Outer layer (inlet surface)	Spunbond nonwoven fabric	Retains large particles as a pre-stage, protecting the cotton core; provides mechanical strength.
Middle layer	Natural cotton	Retains fine particles down to 0.5 µm in depth in dense liquids; absorbs free oil.
Inner layer (outlet surface)	Spunbond nonwoven fabric	Stops fibres that may come loose from the cotton from entering the clean liquid; provides dimensional stability.

Temperature and chemical resistance

Temperature
Suitable for continuous operating temperatures up to 90 °C.

Chemical
Moderate resistance to common acids and alkalis; limited resistance to strong solvents.

Oil
The lipophilic cotton core absorbs free oil; this mechanism does not work with emulsified oil.

Information needed for custom production

Liquid type and viscosity
Type of process liquid and its viscosity.

Temperature
Continuous and maximum operating temperature.

Contaminant profile
Particle and oil load to be retained, required precision.

Use and maintenance

- Make sure the process temperature does not exceed 90 °C.
- In liquids containing strong solvents, confirm chemical compatibility before use.
- Do not expect oil absorption in processes containing emulsified oil; only free oil is retained.
- Replace the bag when the differential pressure reaches 2–2.5 bar; the bag is single use.
- As the product is made to process requirements, share your process data with our technical team before ordering.

Values in this data sheet are typical and for information only. Product selection should be made with our engineers based on process fluid, temperature, pressure and flow conditions. Proses T.İ.M. reserves the right to change product specifications without prior notice.

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