DURAGAF™ Filter Bag Range

Extended-life filter bags improve filtration processes

Eaton's DURAGAF extended-life filter bags are suitable for a wide range of applications such as water treatment, chemicals, paints and varnishes, adhesives, petrochemicals and applications in the automotive, metal-processing, food and beverage industries (POXLF, PEXLF only) and many more.

The polypropylene or polyester needle felt construction of the DURAGAF extended-life filter bags, along with the increased thickness of the filter material, significantly increases the dirt-holding capacity and extends the lifetime by two to five times longer than standard needle felt filter bags. These features significantly reduce operating costs.

In addition, the needle felt material with smaller diameter fibers also provides a more porous filter material while maintaining the same low initial differential pressure.

Features and benefits

- The reinforced filter material thickness facilitates gel removal
- Lower operating costs due to extended lifetime
- DURAGAF filter bags are available in PEXLF and POXLF materials and comply with FDA and EC directives and regulations for food contact
- Special surface treatment significantly reduces fiber migration
- Material is free from silicone and crater-forming substances[1]
- Fully-welded construction with patented SENTINEL® seal ring provides 100% bypass-free filtration
- The pressure-activated SENTINEL seal ring provides a flexible, chemically resistant seal which adapts to any bag filter housing
- Eaton strongly recommends the use of an insertion tool that facilitates the insertion of the filter bag into the bag filter housing and ensures the correct alignment of the filter bag inside the restrainer basket

Filter specifications

Materials
Extended-life needle felt polypropylene or polyster

Seal rings
Welded polypropylene or polyester SENTINEL seal ring

Retention ratings
1, 5, 10, 25, 50, 100 µm

Dimensions/Parameters

Sizes
01: Ø 7 x 17" L (180 x 430 mm)
02: Ø 7 x 32" L (180 x 810 mm)

Filter area
01: 2.6 ft² (0.24 m²)
02: 5.2 ft² (0.48 m²)

Max. operating temperatures
Polypropylene: 194 °F (90 °C)
Polyester: 302 °F (150 °C)

Max. differential pressure
36.2 psi (2.5 bar)

Recommended change-out pressure for disposal[2]
11.6 – 21.7 psi (0.8 – 1.5 bar)

Max. flow rates[3]
01: 66 GPM (15 m³/h)
02: 132 GPM (30 m³/h)

FDA/EC conformity

All polypropylene and polyester materials used (POXLF and PEXLF only) comply with EC Regulation 1935/2004 and EC Directive 2002/72/EC as well as FDA requirements according to Title 21, Section 177, as applicable for food and beverage contact.

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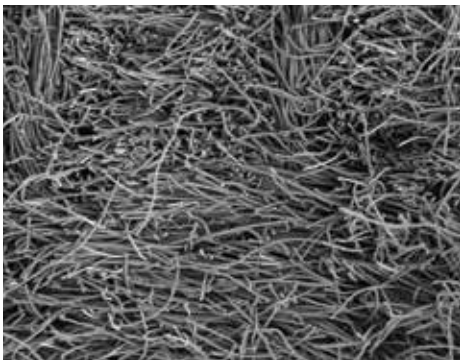
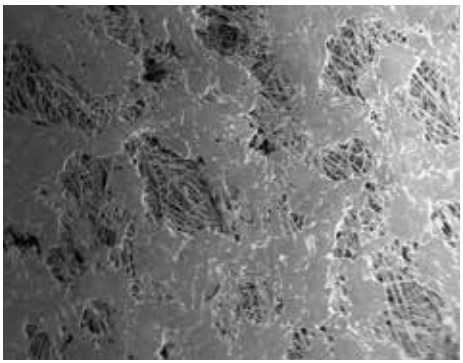


Extended-life needle felt in comparison to standard needle felt
- Finer fibers
- Greater porosity
- Thicker media



Surface of a DURAGAF filter bag
- No fiber release
- Full flow through surface channels

Ordering information

Ranges/Materials
POXL: Extended-life needle felt polypropylene
PEXL: Extended-life needle felt polyester
POXLF: Extended-life needle felt polypropylene (food-grade)
PEXLF: Extended-life needle felt polyester (food-grade)

Sizes
01: Ø 7 x 17" L (180 x 430 mm)
02: Ø 7 x 32" L (180 x 810 mm)

Packaging
30: Filter bags/box
L: Box size

POXL	-50	-P	01	E	-30L

Retention ratings
POXL: 1, 5, 10, 25, 50, 100 µm
PEXL: 1, 5, 10, 25, 50, 100 µm
POXLF: 5, 10, 25, 50, 100 µm
PEXLF: 1, 5, 10 µm

Cover layer
P: Plain

Seal rings
E: Welded polypropylene SENTINEL seal ring (POXL/POXLF)
H: Welded polyester SENTINEL seal ring (PEXL/PEXLF)

[1] Based on an accepted paint compatibility test (see document QUC-STA-10).
[2] Depending on the respective application requirements.
[3] For liquids with a dynamic viscosity of 1 mPa·s @ 68 °F (20 °C).