



GORE® Filtration Products

HIGH DURABILITY FILTER BAG

Polyimide/ePTFE Felt

Blended For Versatility in Aggressive Environments.

GORE™ High Durability Filter Bags blend chemically inert expanded polytetrafluoroethylene (ePTFE) with rugged polyimide fibers. This hybrid offers significant performance increases over aramid felts both in mechanical endurance and chemical resistance. It provides product recovery and emissions control unequalled by nonmembrane filters.

The polyimide/ePTFE blend provides better humidity and chemical protection compared to aramid and polyphenylsulfide (PPS) felts. Additionally, its temperature range goes all the way to 260 °C (500 °F). This capability means much better protection against process upsets due to temperature fluctuations. An additional benefit of the blend is its higher resistance to acids compared to aramid fibers. The enhanced performance of the polyimide/ePTFE backer is very effective for applications requiring more chemical and thermal endurance than traditional felts made with aramid or PPS fibers.

ENHANCED SCRIM INCREASES BREAKING STRENGTH

A woven ePTFE supporting scrim further improves durability and breaking strength. By bracing the filter in the face of repeated cleaning pulses, it provides greater dimensional stability and reduces fatigue and wear.

BETTER VALUE THAN ARAMIDS AND PPS

GORE™ High Durability Filter Bags with blended backer offers greater price/performance value than their aramid or PPS counterparts. Their higher temperature range maintains the integrity of the felt structure, minimizing brittleness and membrane cracking. They last longer even under the damaging effects of hydrolysis and acids. That means fewer bag changeouts and greater savings over time – all of which have a positive impact on your company’s profit.



KEY FEATURES

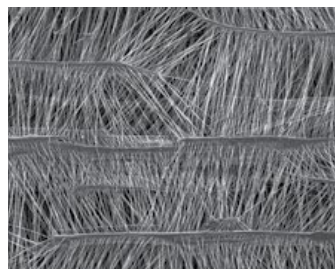
- System Analysis
- Technical Support
- Lab Services
- Installation Expertise
- GORE™ High Durability Membrane Technology
- Polyimide/ePTFE Blended Backer
- High Strength ePTFE Scrim

KEY BENEFITS

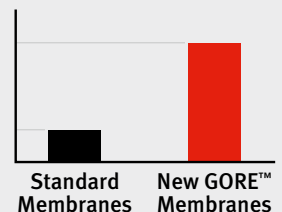
- Optimized Performance
- Reduced Support Cost
- High Operating Temperature
- Higher Acid Resistance
- Reduced Risks of Downtime
- Longer Life than Aramids

NEXT GENERATION GORE™ MEMBRANE

The unique structure of the new GORE™ membrane allows it to outlast standard membranes.



Membrane Strength Test





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LAMINATE TECHNICAL DATA

| | |
|----------------------------------|--|
| Weight | 830 g/m² (24.5 oz/yd²) |
| Fiber Content | Staple – Expanded Polytetrafluoroethylene and Polyimide Staple Fiber Scrim – Woven Expanded Polytetrafluoroethylene |
| Felt Construction | Supported Needlefelt |
| Continuous Operating Temperature | 260 °C (500 °F) |
| Maximum Surge Temperature | 274 °C (525 °F) |
| Acid Resistance | High |
| Alkali Resistance | High |
| Breaking Strength | |
| • Machine Direction | 890 N/5 cm (200 lb/2 in) wide sample |
| • Cross-Machine Direction | 668 N/5 cm (150 lb/2 in) wide sample |
| Mullen Burst | 3825 kPa (550 psi) |
| Thickness | 0.89 mm (0.035 in) |
| Thermal Stability | < 2 % shrinkage at 260 °C (500°F) after 2 hours (unrestrained) |
| Durability | High |

All data expressed as typical values. This specification is subject to change.
Please contact W. L. Gore and Associates directly to confirm current information.

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