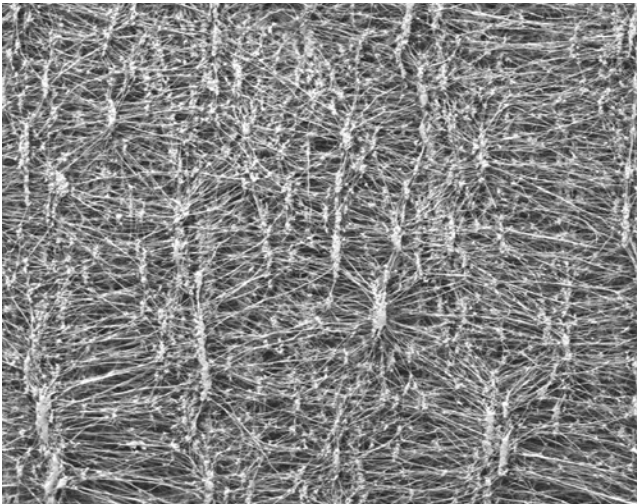


Fact Sheet

BHA® Preveil® ePTFE Membrane Laminated to 100% PTFE Felt Base Fabric – QT025

BHA Preveil is an expanded microporous PTFE membrane manufactured from 100% polytetrafluoroethylene that can be laminated to the surface of conventional PTFE fabrics to increase the filtration efficiency to over 99.99%. The combined benefits of BHA Preveil and the PTFE base fabric are:

- More effective cleandown of filter media
- Reduced average differential pressure leading to increased airflow or low energy cost
- Continuous operation at 500°F (260°C)
- Dimensional stability



BHA Preveil at 500x magnification. Extremely small pores—more than 8 billion per square inch—collect submicron dust.

Superior media performance for chemically aggressive applications

Filtration fabrics constructed of PTFE have traditionally been used in industrial applications because of the high thermal and chemical resistance of PTFE fibers. Common applications include waste incineration, lead smelting, carbon black, titanium dioxide, and other specialty chemical manufacturing processes. Until now, the main limitation of conventional PTFE has been the relatively low efficiency of PTFE fabrics. The addition of the ePTFE membrane lamination now allows the end user to have maximum efficiency for dust control matched with high resiliency against aggressive gas stream chemistry.

The Base Fabric

BHA's PTFE felt base media has been specifically designed to operate in the most chemically and thermally challenging pulse-jet applications. This fabric is produced with state-of-the-art felt technology, which maximizes all the attributes of PTFE for use in filtration.

The fabric, made from individual staple fibers composed of 100% PTFE, can handle most aggressive chemicals over the entire 0 to 14 pH range. Further, it is thermally stabilized to ensure performance at a maximum continuous operating temperature of 500°F (260°C).

The Laminate

The base fabric is laminated with a heavy duty, durable expanded PTFE membrane. This BHA Preveil membrane achieves the highest efficiencies, while maintaining excellent air flow properties and durability under challenging conditions. These improved performance characteristics are the result of unique and proprietary lamination techniques.



Fact Sheet

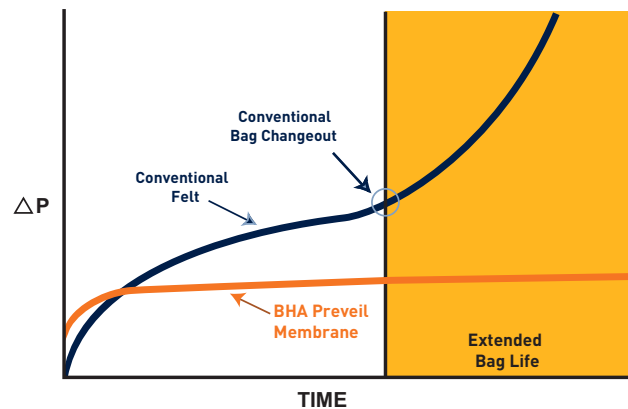
BHA® Preveil® ePTFE Membrane Laminated to 100% PTFE Felt Base Fabric – QT025

Fractional Efficiency Test

BHA Preveil QT025

Particle Size Range (micron)	Fractional Efficiency (%)
0.3–0.4	99.93
0.4–0.55	99.98
0.55–0.7	99.90
0.7–1.0	100.00
1.0–1.3	100.00
1.3–1.6	100.00
1.6–2.2	100.00
2.2–3.0	100.00
3.0–4.0	100.00
4.0–5.5	100.00
5.5–7.0	100.00
7.0–10.0	100.00

DIFFERENTIAL PRESSURE (ΔP)



Test Parameters

Flow Rate/Velocity: 10 cfm

Test Aerosol: KCL Neutralized

Filter size: 12" x 12"

Available as:

QTO25: 21 oz. PTFE Felt with BHA Preveil Membrane

TFO25: 21 oz. PTFE Felt

