



MAKING ULTRA LOW EMISSIONS REALITY

THE KAYSER[®] ePTFE-MEMBRANE

KAY.TEX[®] products are laminates using an expanded microporous PTFE-Membrane that is bonded to the surface of needlefelts and glass fabrics. Our membranes offer the highest filtration efficiency (>99,99%), superior cake release and increased airflow at lower energy consumption.

FEATURES

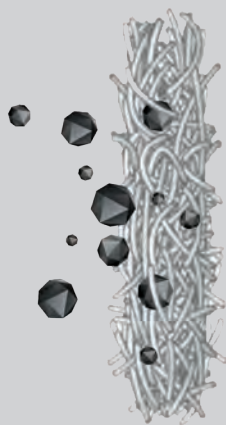
- High porosity with small pore sizes
- Heat resistant up to 280 °C
- Anti-adhesive
- Non-flammable
- Food conformity

BENEFITS

- ✓ Increased airflow
- ✓ Emissions close to ZERO
- ✓ Superior cleanability
- ✓ Longer bag life
- ✓ Fewer cleaning cycles
- ✓ Lower pressure-drop
- ✓ Less pulsing

KAY.TEX® ADVANTAGES COMPARED WITH CONVENTIONAL FILTER BAG MEDIA

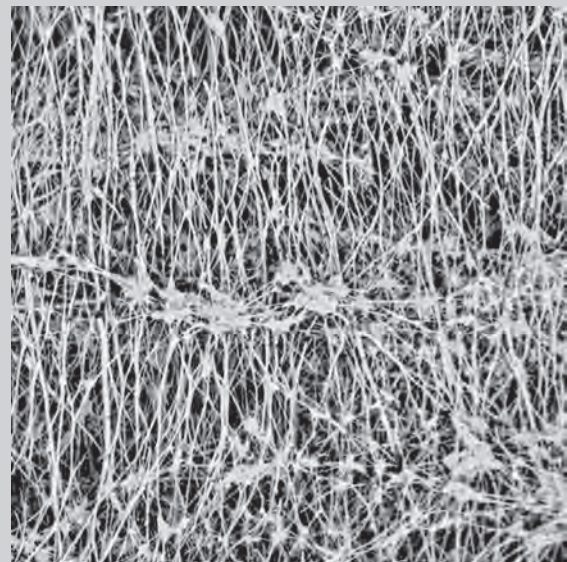
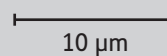
Without ePTFE-Membrane



With ePTFE-Membrane



Magnified



THE CONVENTIONAL APPROACH IN FILTRATION

Using standard fabric filter media, filtration occurs as a result of the formation of a primary dust cake (the initial layer of dust) on the surface of the filter bags and an accumulation of dust particles within the structure of the filter media.



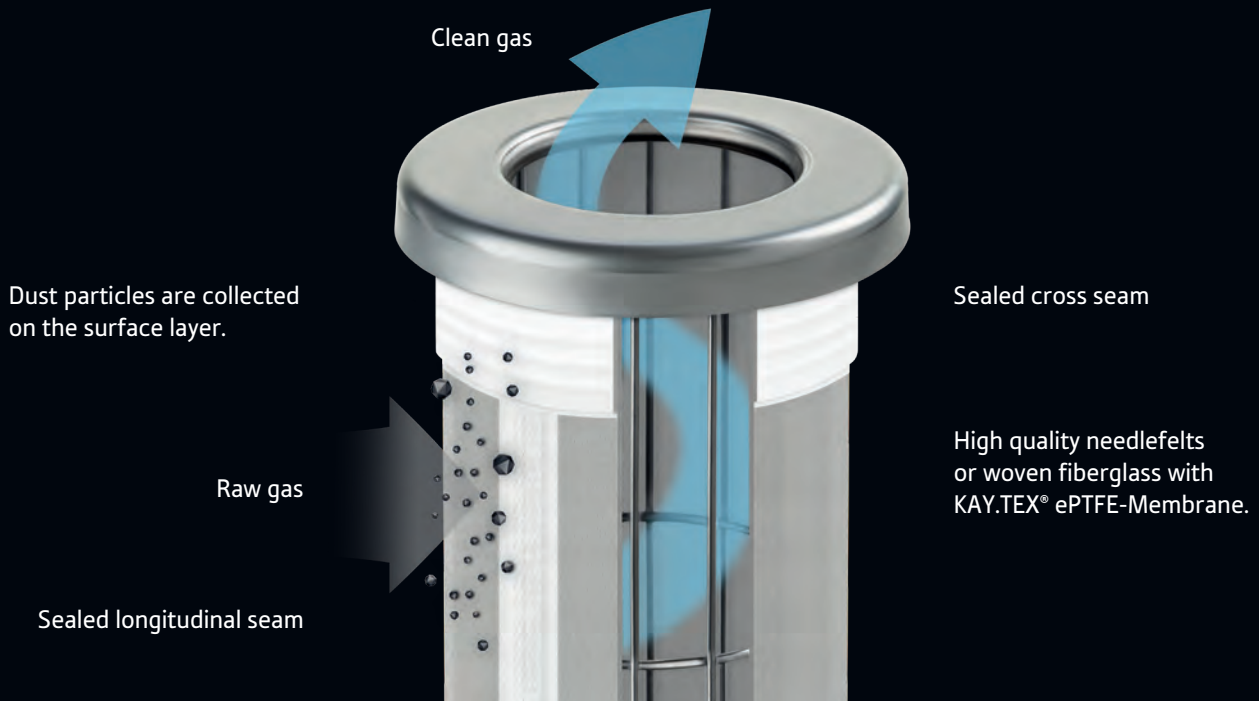
Over time, the dust becomes permanently trapped in the depth of the fabric resulting in higher differential pressure and reduction in process ventilation. It also causes the filter bags to "blind" which reduces filter life.

In certain applications, with proper operation of the collector, this primary dust cake can filter adequately for a period of time. However, depth filtration does not effectively capture submicron particulate, where bleed through emissions result in "spikes" (intermittent emission following cleaning) and loss of product.

INDUSTRIES

- Carbon Black
- Chemical
- Energy
- Food
- Minerals
- Pharma

KAY.TEX® ePTFE-MEMBRANE COLLECTING ALL PARTICLES ON THE SURFACE RATHER THAN IN THE DEPTH OF THE FILTER MEDIA



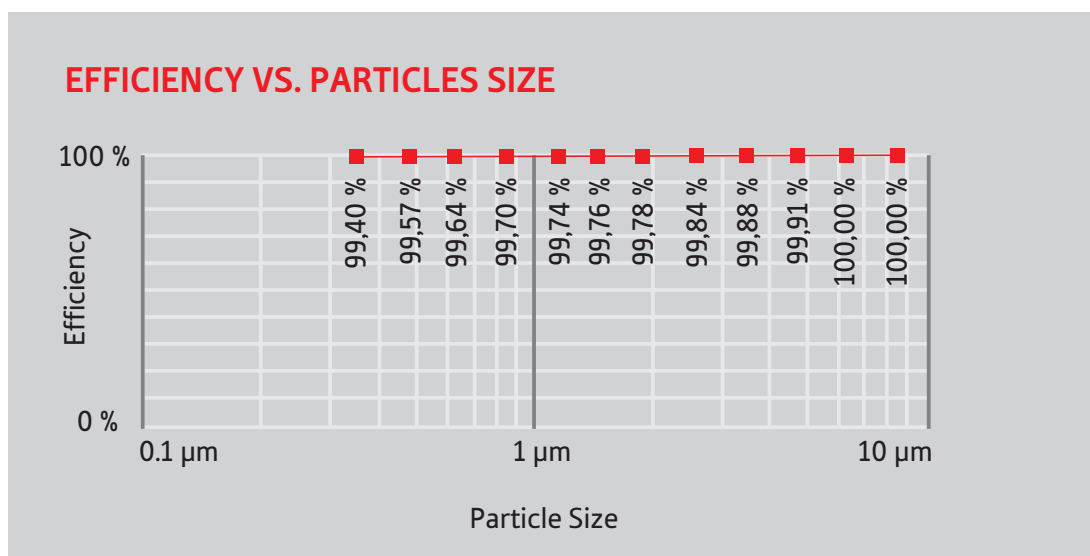
SURFACE FILTRATION BY USING THE ePTFE-MEMBRANE KAY.TEX®

The innovative filtration approach: Surface filtration occurs with all particulate collected on the surface of the filter media. This filtering method eliminates the need for a primary dust cake. KAY.TEX® ePTFE-Membrane acts as the primary dust cake, collecting all particulate on the surface rather than in the depth of the filter media.

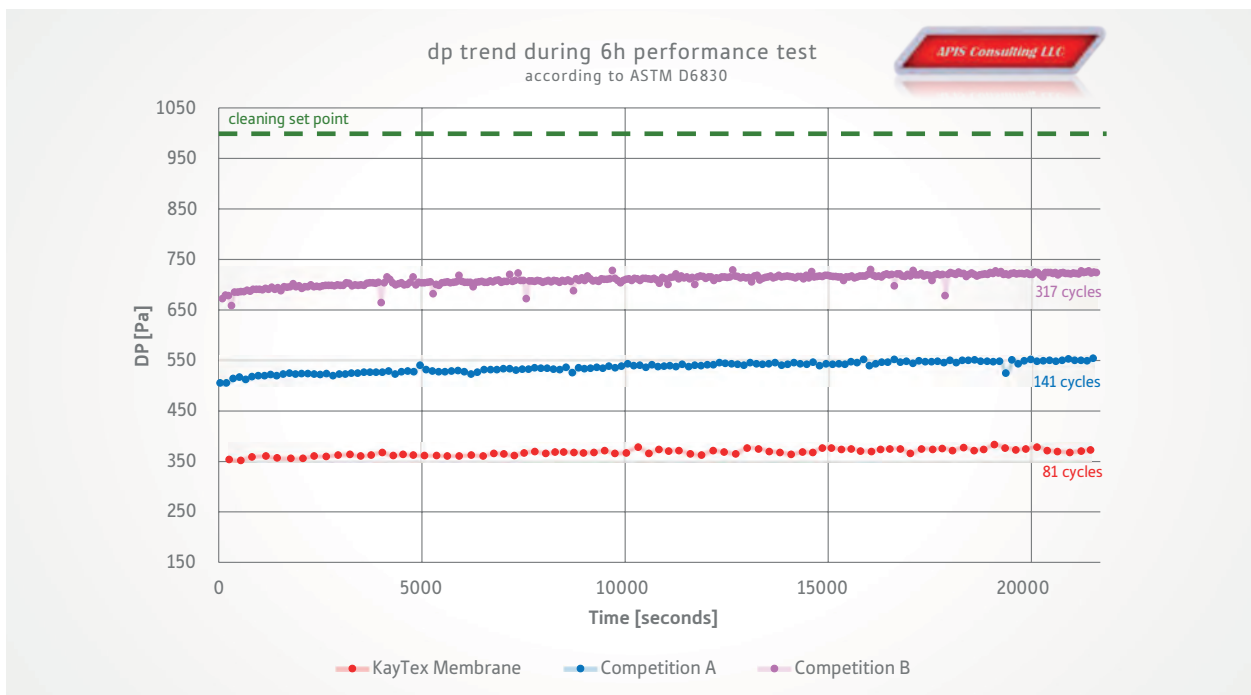
With conventional filter media, emissions can take place at startup and immediately following the cleaning cycle. These bleed through emissions are virtually eliminated with KAY.TEX®. The KAY.TEX® ePTFE-Membrane is smooth and microporous, and allows an excellent dust-cake release to minimize air-flow resistance.

PERFECT SEPARATION EFFICIENCY OF THE FINEST PARTICLES

With our membrane, you can separate the finest particles. A separation efficiency of more than 99.7 % with a particle size of 1 µm speaks for itself. KAY.TEX® is a high-performance membrane that is second to none.



OUTSTANDING PERFORMANCE KAY.TEX® MEMBRANE COMPARED TO COMPETITOR PRODUCTS



INDEPENDENT MEASUREMENT OF OUR TOP PERFORMER KAY.KAT® MEMBRANE

The test carried out in an independent test laboratory confirms the excellent properties of our KAY.TEX® ePTFE-Membrane. Compared to competitor products, KAY.TEX® has significantly better regenerability, a lower differential pressure, less cleaning, an increased airflow and longer intervals between cleaning cycles. All these advantages lead to energy savings and protect your system and our filter material.

BENEFITS

- ✓ Fewer cleaning cycles
- ✓ Lower pressure-drop
- ✓ Less pulsing
- ✓ Longer bag life
- ✓ Increased airflow
- ✓ Very good regeneration

YOUR COMPLETE SUPPLIER AND PARTNER FOR THE ENTIRE FILTRATION PROCESS

KAYSER FILTERTECH GmbH
GERMANY
Headquarter Einbeck
Factory Düren
+49 55 61 70 14 100
info@kayser-filtertech.com

KAYSER FILTERTECH
FRANCE SARL
Wittelsheim
+33 3 89 28 64 40
france@kayser-filtertech.com

KAYSER FILTERTECH
CZECH REPUBLIC S.R.O.
Vysoké Mýto
+420 465 461 611
sales-cz@kayser-filtertech.com

KAYSER FILTERTECH
ITALY SRL
Caselle Torinese
+39 011 92 73 154
italy@kayser-filtertech.com

@kayser-filtertech



www.kayser-filtertech.com

It's ALL.KAY

KAYSER®
FILTERTECH GROUP