



KAY-TEX[®]

ePTFE-Membrane

High quality needlefelts
or woven fiberglass

KAY-TEX[®]

KAY-TEX[®] products are laminates using an expanded microporous PTFE-Membrane that is bonded to the surface of needlefelts, fabrics or spunbonds.

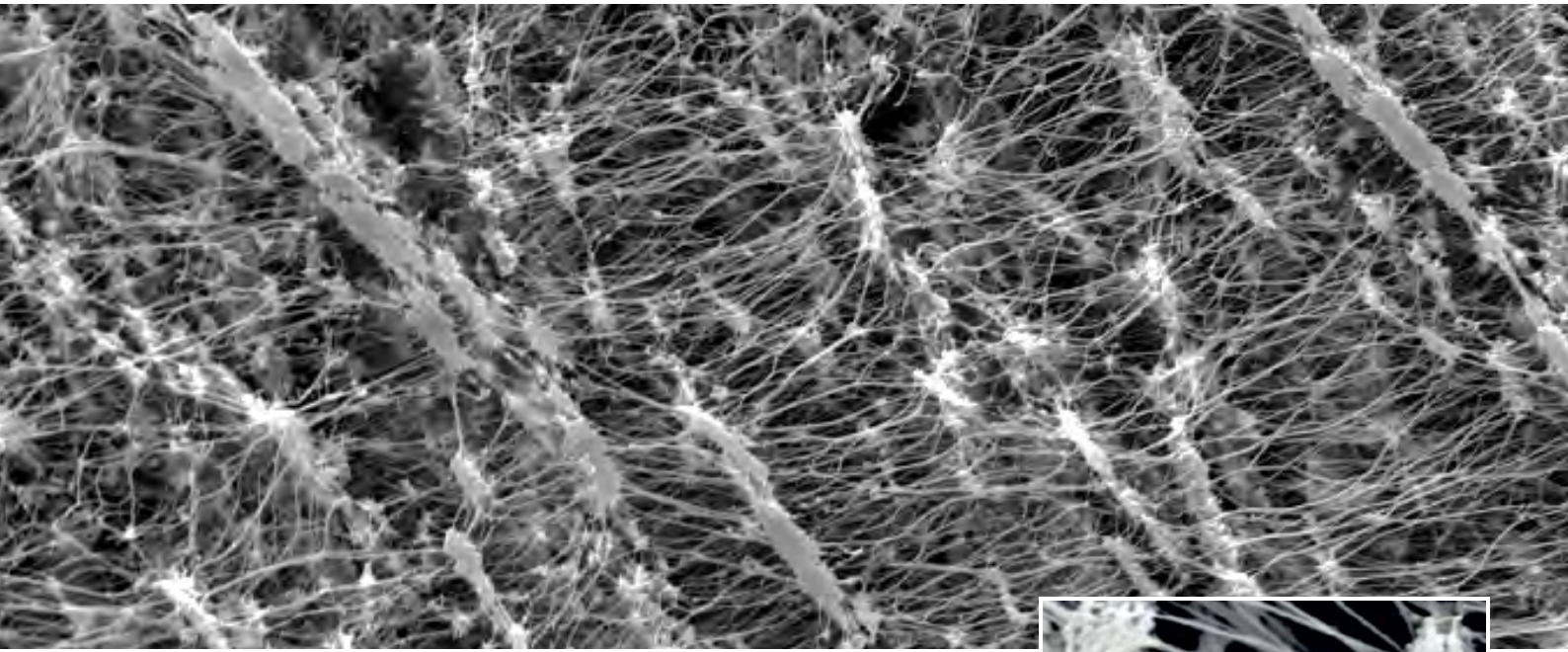
These laminates offer highest filtration efficiency (>99,99%), superior cake release and increased airflow at lower energy consumption.

BENEFITS

- ✓ Increased airflow
- ✓ Emissions close to ZERO
- ✓ Superior cleanability
- ✓ Longer bag life
- ✓ Lower pressure-drop

FEATURES

- ultrathin
- high porosity with small pore sizes
- heat resistant up to 280 °C
- antiadhesive
- non-flammable
- with food-conformity



THE MICROPOROUS ePTFE-MEMBRANE

Advantages compared with conventional filter bag media

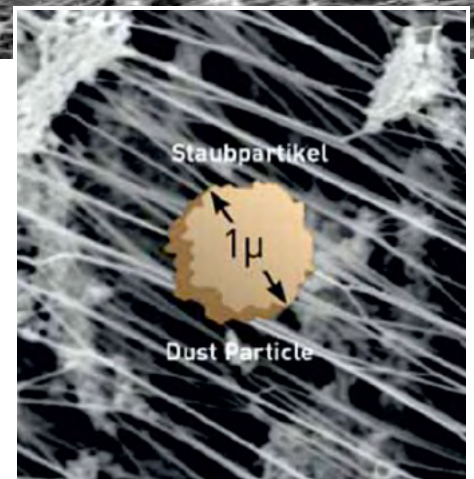
The conventional approach in filtration: Using standard fabric filter media, filtration occurs as a result of the formation of a primary dust cake (the initial layer of dust) on the surface of the filter bags and an accumulation of dust particles within the structure of the filter media. Over time, the 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 “puffing” (intermittent emission following cleaning) and loss of product.

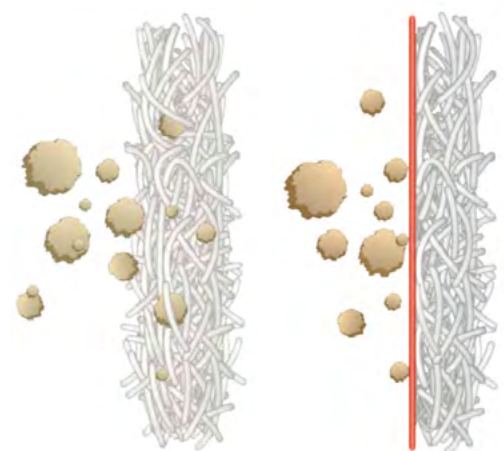
SURFACE FILTRATION BY USING THE ePTFE-MEMBRANE KAY-TEX[®]

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[®]. KAY-TEX[®] ePTFE-Membrane is smooth and microporous, and allows an excellent dustcake release to minimize air-flow resistance.



KAY-TEX[®] 1:200



Without ePTFE-Membrane:
trapped dust particles
inside

With ePTFE-Membrane:
dust particles are collected
on the surface layer