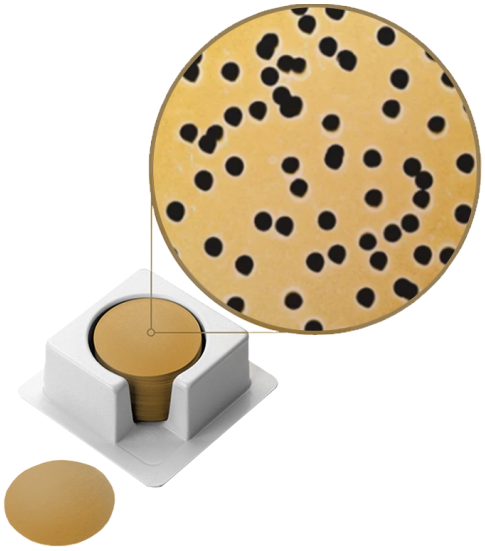
GOLD-COATED POLYESTER MEMBRANE FILTERS

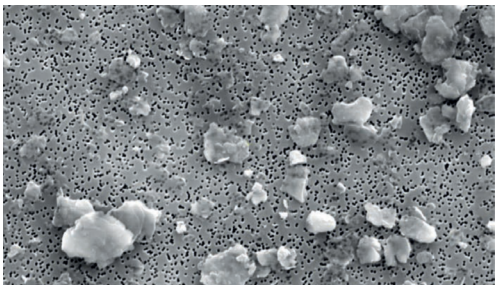
The gold-coated membrane made out of polyester (PETG) is used for identifying and characterizing micro- and nanoparticles in pharmaceutical liquids and technical cleanliness. It delivers an optimal reflection in Fourier Transform Infrared (FTIR) microscopy and Raman spectroscopy and form a suitable, conductive surface for imaging in scanning electron microscopy (EDX/WDX).



This track-etched membrane is distinguished by its particularly smooth and even surface. The polyester membrane with a gold-coating of 100/0 nm permits filtration of all organic and inorganic particles and is stable in a liquid medium for longer filtration period.

FEATURES

- Stable in liquid medium for longer filtration periods
- High contrast in SEM, FTIR microscopy and Raman spectroscopy
- Gold-coated on top side (100/0 nm)



REM sample (particles on PETG Membrane)

SPECIFICATIONS

PORE SIZE	0.05 µm	0.8 µm	3.0 µm	5.0 µm
Membrane Material	Polyester			
Pore Density (cm^{-2})	6.00 E+08	4.00 E+07	3.00 E+06	4.00 E+05
Membrane Thickness (µm)	23	22	20	19
Gold-Coating (top/down)	100/0 nm			
Diameter (mm)	13/25/30/37/45/47			

APPLICATIONS

- Particle analysis by SEM/EDX, FTIR microscopy and Raman spectroscopy
- Identification and characterization of micro- and nanoparticles in pharmaceutical fluids and chemical auxiliary agents
- Testing for technical cleanliness in accordance with ISO 16232 and VDA 19

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