ALUMINUM OXIDE MEMBRANE FILTERS

Aluminum Oxide (AO) membrane filters feature uniform, densely-packed honeycomb pore structures that contribute to precise retention and high porosity characteristics. Composed of pure anodized aluminum, these filters have essentially no organic extractables.

AO membrane filters are inherently hydrophilic and exhibit low non-specific binding. These membranes show excellent resistance to extreme temperatures and most non-aqueous solvents.

Virtually transparent when wet, this material shows minimal autofluorescence and exhibits excellent surface retention properties. This makes it ideal for use in microscopic analyses.

AO membranes are non-cytotoxic and have good biocompatibility; features that enable use as cell culture substrate. Additionally, their uniform, noninterconnected pores present a suitable template for the synthesis of nanostructures.

These AO membranes are supplied in the form of non-supported circular membrane filters. We suggest using a vacuum and/or flat tweezers for a suitable handling.



SPECIFICATIONS

GENERAL	
Sterilization	Gamma Irradiation, EtO, Autoclave
Thickness (µm)	60
pH Range	6-8
Max. Operating Temp.	752 °F (400 °C)
Refractive Index	1.6
Porosity	25% - 65%
Solvent Resistance	High
Protein Adsorption	Low
Support Ring	None
Autoclaveable	Yes
Pore Sizes	0.02, 0.1, 0.2um

APPLICATIONS

- Filtration of HPLC samples and mobile phases
- Filtration of aggressive organic solvents
- Optical and fluorescence microscopy
- Concentration and viruses/microbes in solution
- Analysis of microplastics and trace organic contaminants in water
- Synthesis of nanotubes & nanorods

 Copyright © 2025