

ALUMINUM OXIDE MEMBRANE FILTERS

Aluminum oxide membranes 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.

FEATURES

Aluminum oxide (AO) membranes 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, non-interconnected pores present a suitable template for the synthesis of nanostructures.



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	25-50%
Solvent Resistance	High
Protein Adsorption	Low
Support Ring	None

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