

Global PES Folded Cartridge Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PES Folded Cartridge market size is expected to reach \$ 709 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

PES pleated filter cartridges are high-precision filter cartridges made with polyethersulfone (PES) microporous membranes as the core filtration medium, combined with a supporting flow guide layer and outer shell skeleton, using a special pleating process. They belong to the category of terminal sterilization-grade filter cartridges with absolute filtration precision. Due to their hydrophilicity, high porosity, and excellent sterilization capabilities, they are widely used in industries with extremely high cleanliness requirements.

Upstream components mainly include PES membrane material, PES resin, polypropylene support and flow guide layers, center rod, outer shell, end caps, silicone/EPDM/FKM sealing rings, and welding and testing consumables. The PES membrane determines the pore size distribution, flux, retention efficiency, protein adsorption, and leaching levels, and is the core of product performance; PP structural components affect mechanical strength, pressure resistance, thermal stability, and cleanliness; sealing materials determine compatibility with pharmaceutical solutions, beverages, chemicals, or ultrapure water systems.

Global sales in 2025 are estimated at approximately 4.6 million units, with a global average price of approximately US\$105 per unit and a gross profit margin of approximately 35%-50%.

The growth of PES pleated filter cartridges is primarily driven by increased demand for aseptic filtration in biopharmaceuticals, microbial stabilization in food and beverages, ultrapure water for semiconductors, and high-purity filtration for electronic chemicals.

Compared to PP filter cartridges, PES filter cartridges offer significant advantages in low protein adsorption, low dissolution, high throughput, and sterilization, making them more suitable for high-value liquids and applications requiring high cleanliness. Industry obstacles mainly lie in the high barriers to entry for high-end PES membrane materials, pore size consistency, integrity testing, clean manufacturing, and regulatory validation, resulting in longer adoption cycles for pharmaceutical and semiconductor customers. The future market will likely shift towards high throughput, low dissolution, low adsorption, integrity testing capabilities, single-use system compatibility, and domestic substitution. Competition in the general industrial-grade product market will become more price-driven, while pharmaceutical-grade, electronic-grade, and high-purity liquid filtration products will continue to offer good profit margins.

This report studies the global PES Folded Cartridge production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PES Folded Cartridge and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of PES Folded Cartridge that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PES Folded Cartridge total production and demand, 2021-2032, (K Units)

Global PES Folded Cartridge total production value, 2021-2032, (USD Million)

Global PES Folded Cartridge production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global PES Folded Cartridge consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: PES Folded Cartridge domestic production, consumption, key domestic manufacturers and share

Global PES Folded Cartridge production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global PES Folded Cartridge production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global PES Folded Cartridge production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global PES Folded Cartridge market based on the

following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Pall, Merck, Sartorius, Solventum, Parker Hannifin, Donaldson, Eaton, Meissner, Entegris, Graver Technologies, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World PES Folded Cartridge market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global PES Folded Cartridge Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PES Folded Cartridge Market, Segmentation by Type:

Monolayer

Double Layer Membrane

Global PES Folded Cartridge Market, Segmentation by Filtration Accuracy:

0.1 μ m

0.22 μ m / 0.2 μ m

0.45 μ m

0.65 μ m

Other

Global PES Folded Cartridge Market, Segmentation by Grade:

Sterilization Grade

Clarification Grade

Global PES Folded Cartridge Market, Segmentation by Application:

Biopharmaceuticals

Food & Beverage

Electronics

Fine Chemicals

Water Treatment

Others

Companies Profiled:

Pall

Merck

Sartorius

Solventum

Parker Hannifin

Donaldson

Eaton

Meissner

Entegris

Graver Technologies

Porvair Filtration Group

Amazon Filters

GVS

Cobetter

Hangzhou Darlly Filtration Equipment

Membrane Solutions

Key Questions Answered:

1. How big is the global PES Folded Cartridge market?
2. What is the demand of the global PES Folded Cartridge market?
3. What is the year over year growth of the global PES Folded Cartridge market?

4. What is the production and production value of the global PES Folded Cartridge market?
5. Who are the key producers in the global PES Folded Cartridge market?
6. What are the growth factors driving the market demand?

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