

Global PES Folded Cartridge Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global PES Folded Cartridge market size was valued at US\$ 497 million in 2025 and is forecast to a readjusted size of US\$ 709 million by 2032 with a CAGR of 5.3% during review period.

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 is a detailed and comprehensive analysis for global PES Folded Cartridge market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global PES Folded Cartridge market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global PES Folded Cartridge market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global PES Folded Cartridge market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global PES Folded Cartridge market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for PES Folded Cartridge

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global PES Folded Cartridge market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

PES Folded Cartridge market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Monolayer

Double Layer Membrane

Market segment by Filtration Accuracy

0.1 ?m

0.22 ?m /0.2 ?m

0.45 µm

0.65 µm

Other

Market segment by Grade

Sterilization Grade

Clarification Grade

Market segment by Application

Biopharmaceuticals

Food & Beverage

Electronics

Fine Chemicals

Water Treatment

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe PES Folded Cartridge product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PES Folded Cartridge, with price, sales quantity, revenue, and global market share of PES Folded Cartridge from 2021 to 2026.

Chapter 3, the PES Folded Cartridge competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PES Folded Cartridge breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and PES Folded Cartridge market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of PES Folded Cartridge.

Chapter 14 and 15, to describe PES Folded Cartridge sales channel, distributors, customers, research findings and conclusion.

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