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Global PES Pleated Filter Cartridges 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 Pleated Filter Cartridges market size was valued at US$ 840 million in 2025 and is forecast to a readjusted size of US$ 1193 million by 2032 with a CAGR of 5.2% during review period.

The Polyethersulfone (PES) pleated filter cartridge is a precision filtration component featuring a hydrophilic PES microporous membrane as its core filtration medium. It utilizes a pleated design to maximize effective filtration area and incorporates support layers, drainage layers, a central core, and end caps. Key characteristics include high flux, low protein adsorption, excellent heat resistance, and strong chemical compatibility.

Upstream components include PES filter membranes, polypropylene support materials, non-woven fabrics, sealing rings, end caps, and injection molding raw materials. Downstream applications primarily span biopharmaceuticals, vaccines, food and beverage, microelectronics, fine chemicals, water treatment, and filtration system integration.

The global market for PES pleated filter cartridges features an average unit price of $160, with annual sales of approximately 5.1 million units and a global production capacity of around 6.5 million units; the industry profit margin stands at 20%.

The global PES pleated filter cartridge market will be driven by expanded biopharmaceutical production capacity, upgrades to aseptic manufacturing processes, and growing demand for high-purity fluid handling. Future product development will focus on achieving higher flux, lower pressure drop, reduced protein adsorption, lower

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extractables, and superior retention stability to meet the rigorous requirements of high-value processes such as monoclonal antibody production, vaccines, and cell and gene therapies. The widespread adoption of single-use bioprocessing systems will spur demand for pre-sterilized, miniaturized, and modular filter cartridges, while pharmaceutical companies will place greater emphasis on filter integrity testing, batch traceability, and regulatory validation. Applications for PES filter cartridges will also expand into the semiconductor, food and beverage, and high-purity water sectors. Manufacturers will enhance filtration efficiency and product consistency through membrane material modification, optimization of pleated structures, and automated production, while localized supply and import substitution will intensify competition within the Asian market.

Report Scope

This report is a detailed and comprehensive analysis for global PES Pleated Filter Cartridges 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 Pleated Filter Cartridges market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global PES Pleated Filter Cartridges 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 Pleated Filter Cartridges 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 Pleated Filter Cartridges 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:

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

To assess the growth potential for PES Pleated Filter Cartridges

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 Pleated Filter Cartridges 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 (Thermo Fisher Scientific), Parker Hannifin, Donaldson, Eaton, Meissner, Entegris, Graver Technologles, etc.

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

Market Segmentation

PES Pleated Filter Cartridges 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 Operating Mode

Reusable PES Filter Cartridge

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Single-Use PES Filter Cartridge

Market segment by Structural Material

Polypropylene-Supported PES Filter Cartridge

Polyester-Supported PES Filter Cartridge

Stainless-Steel-Supported PES Filter Cartridge

All-Polypropylene PES Filter Cartridge

Market segment by Application

Biopharmaceuticals

Food & Beverages

Electronics

Fine Chemicals

Water Treatment

Others

Major players covered

Pall

Merck

Sartorius

Solventum (Thermo Fisher Scientific)

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Parker Hannifin

Donaldson

Eaton

Meissner

Entegris

Graver Technologles

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)

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Chapter Outline

Chapter 1, to describe PES Pleated Filter Cartridges product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the PES Pleated Filter Cartridges 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 Pleated Filter Cartridges 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 Pleated Filter Cartridges.

Chapter 14 and 15, to describe PES Pleated Filter Cartridges sales channel, distributors, customers, research findings and conclusion.

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