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Global Sterilizing Grade PES Pleated Filter 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 Sterilizing Grade PES Pleated Filter Cartridge market size was valued at US$ 364 million in 2025 and is forecast to a readjusted size of US$ 512 million by 2032 with a CAGR of 5.0% during review period.

The Sterilizing Grade PES Pleated Filter Cartridge is a high-efficiency sterilization device manufactured using a pleated design with a polyethersulfone (PES) microporous membrane as the filtration medium. It primarily employs physical retention to capture impurities?such as bacteria and microorganisms?from liquids or gases. These cartridges are widely used in sectors requiring stringent aseptic environments, including biopharmaceuticals, food and beverage, healthcare, and laboratory research.

Upstream activities focus on PES membrane materials and polypropylene structural components; notably, the PES resin determines the foundation for the membrane's hydrophilic modification, heat resistance, chemical resistance, and low protein-binding characteristics. Sterilizing-grade products demand significantly higher material consistency than standard industrial filters, as factors such as extractables, endotoxins, particle shedding, sterilizability, and batch-to-batch stability directly impact the quality control of pharmaceuticals, culture media, and high-purity fluids. Midstream processes encompass membrane fabrication, hydrophilization, pleating, thermal welding, end-cap sealing, and integrity testing. Characterized by excellent hydrophilicity, low protein adsorption, and high flow rates, sterilizing-grade PES pleated filter cartridges are extensively utilized in biopharmaceuticals, healthcare, and the food and beverage industry.

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In 2025, global sales volume is projected to reach approximately 3 million units at an average price of around $118 per unit, with major manufacturers achieving gross margins in the range of 35% to 50%.

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

Global Sterilizing Grade PES Pleated Filter 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 Sterilizing Grade PES Pleated Filter 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 Sterilizing Grade PES Pleated Filter 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 Sterilizing Grade PES Pleated Filter Cartridge

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

To assess competitive factors affecting the marketplace

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This report profiles key players in the global Sterilizing Grade PES Pleated Filter 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 Corporation, Sartorius, Solventum, Meissner, Saint-Gobain Life Sciences, Entegris, Merck KGaA, Donaldson, Eaton, Porvair Filtration Group, etc.

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

Market Segmentation

Sterilizing Grade PES Pleated Filter 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

0.2 ?m/0.22 ?m

0.45 ?m

Other

Market segment by Number of Membrane Layers

Single-Layer

Double-Layer

Market segment by Application

Biopharmaceuticals

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Food & Beverage

High-Purity Water

Others

Major players covered

Pall Corporation

Sartorius

Solventum

Meissner

Saint-Gobain Life Sciences

Entegris

Merck KGaA

Donaldson

Eaton

Porvair Filtration Group

Graver Technologies

GVS

Cobetter

Darlly

Membrane Solutions

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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 Sterilizing Grade PES Pleated Filter Cartridge product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Sterilizing Grade PES Pleated Filter 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 Sterilizing Grade PES Pleated Filter Cartridge market forecast, by regions,

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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 Sterilizing Grade PES Pleated Filter Cartridge.

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

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