

## **Cleanroom Consumables - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029**

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### **Report description:**

The Cleanroom Consumables Market size is estimated at USD 4.90 billion in 2024, and is expected to reach USD 7.35 billion by 2029, growing at a CAGR of 8.45% during the forecast period (2024-2029).

Global cleanroom consumables market growth is expected to be fueled by the emergence of nanotechnology and increased demand for modular cleanroom systems. Various companies may establish delivery agreements to increase their market share globally during the predicted period. Over the next few years, the market is expected to grow because of new technologies, mergers, and acquisitions.

#### Key Highlights

- Clean room facilities are essential across various applications, such as semiconductor and microelectronic purposes, due to the sensitive nature of their products. These clean rooms also include expensive and precise equipment, including etching, photolithography, doping, cleaning, and dicing machines. Therefore, any departures from the cleanliness standards may affect the entire production process.
- There are a lot of purchasers in the market, including companies in the biotechnology, electronics, nanotechnology, and pharmaceutical sectors. The significance of cleanroom consumables attracts many buyers, contributing to the rising demand for these goods. There are a lot of raw material suppliers on the market, like companies that make rubber, cellulose, alcohol, and polymers. This makes it harder for the industry to negotiate prices.
- The increased demand for products like surgical masks, gowns, gloves, and goggles is converting into revenue streams for market participants in the worldwide cleanroom consumables industry. Medical specialists have been actively searching for antiviral medications and vaccinations since coronavirus strains are constantly changing. Professionals working in cleanrooms now focus on protecting themselves from environmental pollution. Hospitals, research labs, and the pharmaceutical industry's end

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consumers are served by suppliers who maintain reliable supply chains.

-The pharmaceutical and biotechnology industries are increasingly adopting cleanroom consumables for improved pharmaceutical drug quality. The cleanroom consumables market is also driven by strict rules put in place by regulatory authorities to ensure product quality and validation.

-In August 2023, Thomas Scientific acquired the Massachusetts-based cleanroom, packaging, and industrial products provider Quintana Supply. Thomas Scientific's national footprint while enhancing its ability to provide products and services to companies in advanced technology and industrial segments with controlled and industrial environments.

-There is an increase in demand for electronic devices due to the developments in artificial intelligence technology, which drives the sales of these consumables. Similarly, the need for these consumables in the healthcare industry has increased due to the development of new and improved treatments. People's changing lifestyles are also making them want packaged foods that last longer, are cleaner, and are easier to use.

-However, the complexity of stringent regulatory requirements and environmental biohazards brought on by disposable cleanroom consumables might hamper market expansion. Also, using and taking care of a cleanroom is hard, and rising raw material costs also make it hard for the market to grow.

-Workflows in the healthcare industry have been affected globally by the COVID-19 epidemic. Several sectors, including numerous branches of healthcare, have been forced to temporarily close their operations due to the pandemic. The prevalence of COVID-19 infectious disease has, however, had a positive effect and increased demand for a variety of services, including cleanroom supplies like gloves, coveralls, shoe covers, face masks, and others, as there is an increasing need to maintain a contamination-free environment while sampling, collecting, and testing suspected COVID-19 cases. Additionally, increasing R&D efforts to create vaccines against COVID-19 prompted pharmaceutical and biopharmaceutical firms to invest significantly in the market to maintain a contaminant-free environment.

## Cleanroom Consumables Market Trends

### Increasing Demand for Safe and Better-Quality Pharmaceutical Drugs is Expected to Drive the Market Growth

- The importance of cleanrooms may be attributed to their role in preventing contamination of produced goods. Cleanroom specifications for medicines are carefully planned so that a successful product can stay on the market.

- The capacity to manage humidity, dust, air pressure, germs, and even temperature makes cleanrooms essential in the pharmaceutical industry. This helps make sure that the health products people buy, whether they get them over-the-counter or from their doctor, won't hurt them.

- The adoption of a sedentary lifestyle is the main reason why there are so many chronic diseases around the world. This has led to the creation of electronic devices (like diabetes devices), systems, and medicines that can help diagnose and treat chronic diseases.

- According to a report, chronic disease is among the most prevalent and costly health conditions in the United States. Nearly half (approximately 45%, or 133 million) of all Americans suffer from at least one chronic disease, and the number is growing. The most common chronic diseases are HIV, cancer, diabetes, hypertension, stroke, heart disease, respiratory diseases, arthritis, and obesity. And as per the Centers for Disease Control in the United States, chronic disease accounts for nearly 75% of aggregate healthcare spending, or an estimated USD 5300 per person annually.

- According to EFPIA, The pharmaceutical research and development spending annual growth rate in Europe, China, and the United States in selected periods between 2007 and 2022. The European pharmaceutical industry's expenditure on R&D grew 4.6 percent annually between 2018 and 2022.

- Pharmaceutical companies are expanding their research and development capacity to conduct trials and develop effective drugs to treat chronic diseases. For instance, according to the Joint Research Commission of the EC, Ventyx Biosciences recorded a significant growth rate of 819 percent in 2021. This was followed by Clover Biopharmaceuticals, which recorded a 777% growth

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rate in R&D spending. Such significant expenditures would include the growth in cleanroom consumables in the workplace.

#### Asia-Pacific to Hold a Significant Market Share

- Asia-Pacific is anticipated to experience significant market growth, primarily driven by the high adoption of electronic gadgets across the world and companies' increased investment in setting up manufacturing plants due to lower labor and raw material costs. Also, the rising growth of the pharmaceutical and biotechnology industries and the growing need for cleanroom consumables in the healthcare and research fields will be very important for keeping the quality of the products that are made.
- Asian countries have better research and pharmaceutical infrastructure to conduct research and develop medicine at an affordable cost. So most foreign companies are working jointly to create and mass-produce the treatment. Around six Indian companies named Serum Institute, Biological E, Bharat Biotech, Indian Immunologicals, and Mynvax were working to develop COVID-19 vaccines and had joined the global efforts to find a quick preventive cure for the deadly infection spreading rapidly across the world. Further, Cipla, Glenmark, and Dr. Reddy's (India-based pharmaceutical companies) would start working with Gilead Sciences to develop Remdesivir, an experimental drug initially developed to cure Ebola but now being speculated as the best option against COVID-19.
- Cleanrooms are critical in the aerospace and defense industries for developing products and services that maintain the quality of components used in fighter jets, helicopters, search and rescue flying boats, engines, and so on, while meeting international requirements and standards. Asia-Pacific nations have many reasons to upgrade their militaries and buy new defense equipment. With emerging great powers, new threats, security difficulties, and military commitments, the area is undoubtedly one with continually changing security dynamics. These necessitate new cleanroom product capabilities, propelling regional military modernization.
- Asia-Pacific held a sizable portion of the global cleanroom consumables market during the study period due to growth in the food and beverage, processing, pharmaceutical, biotechnology, and medical device industries. During the forecast period, the cleanroom consumables market in Asia-Pacific is expected to be driven by a rise in the number of contagious diseases and the rise of domestic players.

#### Cleanroom Consumables Industry Overview

The cleanroom consumables market is fragmented and dominated by a few significant players like Kimberly-Clark Corporation, Texwipe, Nitritex Ltd., Valuetek Inc., and Azbil Corporation. These notable players, with a prominent share of the market, are focusing on expanding their customer base across foreign countries. These companies leverage strategic collaborative initiatives to increase their market share and profitability. However, with technological advancements and product innovations, midsize to smaller companies are growing their market presence by securing new contracts and tapping new markets.

British Steel, a big steel company in Europe, signed a contract with Micronclean to keep getting specialized clothing for more than 4,000 of its workers at sites all over the UK.

Kimberly-Clark Professional launched Kimtech Opal Nitrile Gloves for increased comfort during prolonged wear and solid tactile sensitivity without sacrificing worker safety. The new gloves are suitable for use in non-sterile medicine manufacturing, research and development facilities, and life sciences.

#### Additional Benefits:

- The market estimate (ME) sheet in Excel format

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