

Global PCB Cleaner Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PCB Cleaner market size is expected to reach \$ 254 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

Flux is a material commonly used in the soldering process to facilitate solder flow and enhance solder joint quality. However, once soldering is complete, flux residues remaining on PCB components can lead to various issues, such as corrosion, short circuits, and reduced circuit reliability. To prevent these problems, a flux removal process is required to eliminate residual flux from the PCB components. Flux removal typically necessitates the use of specially formulated cleaning agents designed to dissolve and remove these residues. Depending on the type of flux used and the specific cleaning requirements, PCB cleaner may be water-based, solvent-based. In addition to removing flux residues, PCB cleaner can also eliminate other contaminants and byproducts—such as solder splatter, dust, and other debris that may have accumulated during the manufacturing process.

The global PCB cleaner market size is driven by demand from the 5G sector, automotive electronics, and advanced packaging. The market is segmented by product type into solvent-based, water-based, and others; among these, solvent-based cleaners continue to dominate the consumer electronics sector due to their high cleaning efficiency, while environmental regulations (such as the EU's REACH regulation) are accelerating the penetration of water-based products in medical and automotive PCB applications. In terms of regional landscape, the Asia-Pacific region—specifically China and South Korea—accounts for 60% of global demand. Major manufacturers such as Kyzen, ITW, Kao, and Zestron dominate the high-end market, whereas Chinese enterprises lead the large-scale, mid-to-low-end market segments. Domestic firms—including VTR, Changxian New Materials, and Tongfang Technology—are steadily

increasing their localization rates within the consumer electronics and industrial PCB sectors, leveraging their advantages in cost-effectiveness and localized services. Application areas continue to expand in tandem with the upgrading of the electronics industry, exhibiting a structural pattern characterized by 'consumer electronics dominance, explosive growth in automotive electronics, and breakthroughs in high-end sectors.' Consumer electronics remains the largest application sector, accounting for 27.28% of the global market and covering products such as mobile phones, laptops, and smart wearables. Demand in this sector is concentrated on high-volume, high-efficiency, and low-cost water-based and semi-aqueous cleaning agents, which are tailored to meet the cleaning requirements of HDI boards and multi-layer PCBs; the core requirements here are the absence of visual defects and minimal ionic residue.

The industry's development faces a simultaneous interplay of multiple drivers and obstacles, creating a dynamic landscape characterized by a two-way tug-of-war. The core driving factors primarily encompass four key aspects: First, the electronics industry's transition toward lead-free and high-density technologies—specifically the widespread adoption of micro-via, thin-profile, and multi-layer PCBs—has rendered traditional cleaning methods inadequate, thereby compelling technological iterations in cleaning agents. Second, the ever-increasing product reliability requirements in sectors such as automotive electronics, semiconductors, and AI servers are driving a shift from traditional 'no-clean' processes toward mandatory cleaning protocols, thereby stimulating demand for high-end cleaning agents. Third, increasingly stringent global environmental regulations—such as RoHS, REACH, and China's GB38508 standard—are restricting the use of high-VOC and toxic solvents, thereby driving the transition toward greener products. Fourth, the advancement of localization within China's electronics manufacturing sector, coupled with global industrial relocation trends, has triggered a surge in domestic demand for PCB cleaners, presenting significant growth opportunities for local enterprises. Conversely, the core obstacles to industry development are concentrated across three primary dimensions: technology, cost, and market dynamics.

This report studies the global PCB Cleaner production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PCB Cleaner 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 PCB Cleaner that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PCB Cleaner total production and demand, 2021-2032, (Kiloton)

Global PCB Cleaner total production value, 2021-2032, (USD Million)

Global PCB Cleaner production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton), (based on production site)

Global PCB Cleaner consumption by region & country, CAGR, 2021-2032 & (Kiloton)

U.S. VS China: PCB Cleaner domestic production, consumption, key domestic manufacturers and share

Global PCB Cleaner production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kiloton)

Global PCB Cleaner production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton)

Global PCB Cleaner production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton)

This report profiles key players in the global PCB Cleaner 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 Kyzen, ITW (Techspray & Chemtronics), Kao, Zestron, Inventec Performance Chemicals, MacDermid Alpha, Vantage, Arakawa Chemical Industries, 3M, Florachem, 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 PCB Cleaner market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kiloton) and average price (K US\$/Ton) 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 PCB Cleaner Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PCB Cleaner Market, Segmentation by Type:

Solvent Based

Water Based

Others

Global PCB Cleaner Market, Segmentation by Application:

Consumer Electronic

Automotive Electronic

Communication

Semiconductor

Industrial

Others

Companies Profiled:

Kyzen

ITW (Techspray & Chemtronics)

Kao

Zestron

Inventec Performance Chemicals

MacDermid Alpha

Vantage

Arakawa Chemical Industries

3M

Florachem

Shenzhen Tongfang

Vital New Material

Kolb Cleaning Technology

Microcare

MG Chemicals

Changxian Keji

ACL Staticide

Key Questions Answered:

1. How big is the global PCB Cleaner market?

2. What is the demand of the global PCB Cleaner market?
3. What is the year over year growth of the global PCB Cleaner market?
4. What is the production and production value of the global PCB Cleaner market?
5. Who are the key producers in the global PCB Cleaner market?
6. What are the growth factors driving the market demand?

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