SCOTTS INTERNATIONAL

Semiconductor Chemical Market Type(High Performance Polymers, Acid & Base Chemicals, Adhesives, Solvents), Application(Photoresist, Etching, Deposition, Cleaning), End-Use (Integrated Circuits, Discrete Semiconductor), & Region - Global Forecast to 2028

Market Report | 2023-11-13 | 248 pages | MarketsandMarkets

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Report description:

The Semiconductor chemical market size is projected to grow from USD 12.2 billion in 2023 to USD 21.9 billion by 2028, registering a CAGR of 12.3% during the forecast period. including the increasing demand for semiconductors in a wide range of industries, technological advancements in the semiconductor industry, and the growing demand for electronic devices, driving the need for semiconductor chemical market.
"Solvents accounted for the largest share in type segment of semiconductor chemical market in terms of value & volume."
Solvents dominate the market for semiconductor chemicals, mainly because of their important function in several crucial processes involved in semiconductor fabrication. By removing impurities and particles that can jeopardize the integrity of the finished product, these chemicals are vital for assuring the cleanliness and purity of semiconductor components. For this task, solvents, particularly high purity solvents, are essential because even minute impurities can cause flaws. In addition, they are crucial to photolithography procedures, where they aid in the dissolution and removal of photoresists that define the complex circuit designs on semiconductor wafers. Precision in the manufacture of semiconductors depends on their capacity to remove certain materials in a selective manner. Solvents are also important in chemical mechanical polishing (CMP) procedures, which are necessary for planarizing the semiconductor surface and ensuring that various layers adhere properly, thereby reducing defects and enhancing overall chip performance.
"Photoresist accounted for the largest share in application segment of semiconductor chemical market in terms of value & volume."
Photoresists have the biggest market share in the semiconductor chemicals industry due to their critical function in

photolithography operations that create and pattern complicated circuits on semiconductor wafers. These materials are critical for transferring detailed designs onto semiconductor surfaces, a critical step in chip production. The capacity to precisely and reliably describe circuit features is critical as semiconductor components continue to reduce in size. Photoresists give the essential level of control and precision to meet the industry's ever-increasing needs for smaller, quicker, and more powerful microchips. Their dominance is further cemented by continual advances in photoresist technology, which allows semiconductor manufacturers to push the frontiers of miniaturization and innovation in the area, making photoresists a cornerstone of the semiconductor chemicals business.

"Integrated circuits end-use accounted for the largest share in application segment of Semiconductor chemical market in terms of value & volume."

Integrated circuits (ICs) have the biggest market share in the semiconductor chemicals industry since they are the essential components of almost all electronic devices, from smartphones and laptops to automobiles and industrial machinery. ICs are the brains of modern technology, processing, storing, and transmitting electronic data. Their vast application in a variety of industries, combined with the continual desire for smaller, more efficient, and more powerful chips, ensures a constant demand for innovative semiconductor production techniques. This demand drives the semiconductor chemicals market, as cutting-edge chemicals and materials are required to build complicated, high-performance ICs, allowing the sector to continue its supremacy.

"Asia -Pacific is the largest market for Semiconductor chemical."

Asia Pacific has the biggest market share in the semiconductor chemicals market. The region has a large number of semiconductor foundries and fabrication facilities, mainly in Taiwan, South Korea, and China. These facilities manufacture a significant share of the world's semiconductor components, positioning Asia Pacific as a prominent player in the sector. The region's expansion is being driven by factors such as skilled labor, access to advanced technology, and cost-effective production, which is attracting big semiconductor businesses and generating a robust ecosystem of suppliers for chemicals, materials, and equipment. This ecosystem, together with the region's concentration on innovation and research, cements Asia Pacific's leadership in the semiconductor chemicals market.

In-depth interviews were conducted with Chief Executive Officers (CEOs), marketing directors, other innovation and technology directors, and executives from various key organizations operating in the semiconductor chemical market, and information was gathered from secondary research to determine and verify the market size of several segments.

- By Company Type: Tier 1 - 40%, Tier 2 - 30%, and Tier 3 - 30%
- By Designation: C Level Executives- 20%, Directors - 10%, and Others - 70%
- By Region: North America - 20%, Europe - 30%, APAC - 30%, Rest of the World- 20%

The Semiconductor chemical market comprises major players such as Tokyo Ohka Kogyo Co., Ltd (Japan), JSR Corp (Japan), BASF SE (Germany), Solvay SA (Belgium), Dow, Inc (US), and others. The study includes in-depth competitive analysis of these key players in the semiconductor chemical market, with their company profiles, recent developments, and key market strategies.

Research Coverage

This report segments the market for semiconductor chemical market on the basis of end-use, type, application, and region, and provides estimations for the overall value of the market across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, new product launches, expansions, and mergers & acquisition associated with the market for semiconductor chemical market.

Key benefits of buying this report

This research report is focused on various levels of analysis - industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view on the competitive landscape; emerging and high-growth segments of the Semiconductor chemical market; high-growth regions; and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

- Market Penetration: Comprehensive information on the semiconductor chemical market offered by top players in the global semiconductor chemical market.
- Analysis of drivers: (Growth in demand for semiconductor chemicals fueled by industries powered by modern technologies, Technology advancement in electronics industry), restraints (Difficulties associated with managing waste generated by semiconductor chemicals), opportunities (Development of new Semiconductor materials and Increase focus on sustainability), and challenges (Health risks in semiconductor chemicals manufacturing & stringent governmental regulations) influencing the growth of semiconductor chemical market.
- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the semiconductor chemical market.
- Market Development: Comprehensive information about lucrative emerging markets - the report analyzes the markets for semiconductor chemical market across regions.
- Market Capacity: Production capacities of companies producing semiconductor chemical are provided wherever available with upcoming capacities for the semiconductor chemical market.
- Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the semiconductor chemical market.

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