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info@marketpublishers.com

High-Purity Sulfuric Acid Market by Grade (PPB, PPT), Application (Cleaning, Etching), End-Use Industry (Semiconductor & Electronics, Pharmaceuticals) - Global Forecast to 2030

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Abstracts

The High-Purity Sulfuric Acid market size is projected to grow from USD 0.50 billion in 2024 to USD 0.67 billion by 2030, registering a CAGR of 6.1% during the forecast period.

The market of high-purity sulfuric acid is growing largely due to its vital uses in the semiconductor & electronics sector as well as in the pharmaceutical segment for cleaning processes, etching processes, and refining processes. High-purity sulfuric acid, with minimum impurities, plays a major role in making microelectronics, circuit boards, and integrated chips, and as such, becomes invaluable in the fast-growing semiconductor sector. With increasing demand for sophisticated consumer electronics, 5G network equipment, and AI-enabled devices, the growth of the semiconductor industry is directly driving the market for high-purity sulfuric acid. Moreover, the pharmaceutical industry uses the acid for washing equipment and precise production of active pharmaceutical ingredients (APIs), hence supporting the growth of the market.

“ PPB accounted for the fastest growing in grade segment of High-Purity Sulfuric Acid market in terms of value.”

PPB (Parts Per Billion) grade is the growth-leading segment within the high-purity sulfuric acid market based on its expanding application in next-generation semiconductor production, advanced electronics, and pharma applications. Unlike lower grades of sulfuric acid, PPB-grade sulfuric acid has ultra-low contamination levels, and that is what makes it an indispensable commodity for manufacturing next-generation

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microchips, where trace metal impurities at any level could lead to defects. As semiconductor nodes decrease to 5nm and even smaller, chip makers need ultra-pure chemicals to keep yields high and performance optimal. Increasing demand for AI processors, 5G chips, and high-density memory has driven investment in advanced semiconductor manufacturing facilities, especially in the Asia-Pacific region the epicenter of semiconductor manufacturing. PPB-grade sulfuric acid is also gaining use in the pharmaceutical sector, where pure chemicals are demanded by stringent GMP standards for drug formulation and delicate cleansing. Governments and businesses are increasing R&D spending to produce even more refined and contamination-free chemicals, and again augmenting the use of PPB-grade sulfuric acid. The growing requirement for high-reliability and contamination-free electronic devices, and greater purity requirements in several industries, make the PPB segment the highest-growing segment in the high-purity sulfuric acid market

“Etching accounted for the fastest growing in Application segment of High-Purity Sulfuric Acid market in terms of value.”

The etching segment is most likely the fastest-developing in the market for high-purity sulfuric acid since it is so essential to the semiconductor industry, wherein precision is the name of the game. With electronics shrinking in size and becoming more complicated, the demand mounts for high-tech etching processes that utilize high-purity chemicals. Although used primarily in the cleaning of silicon wafers after etching, the cleaning is crucial for wafer purity and thereby indirectly propelling demand within the etching market. The rapid expansion of the etching market within the business for high-purity sulfuric acid is something to be kept an eye on, particularly in its use for semiconductor manufacturing and other industrial applications. The conversation here investigates reasons for the trend, through exploring market demand and supply conditions, technology, and specific application in related processes for high-purity sulfuric acid.

“Pharmaceutical accounted for the for the fastest growing in end-use industry segment of High-Purity Sulfuric Acid market in terms of value.”

The pharmaceutical industry is growing exponentially as one of the large end-use industries in the high-purity sulfuric acid market. It is due to the fact that it is a critical component in the manufacture of drugs, where it is used as a cleaning agent, pH adjuster, and catalyst in chemical synthesis. The increased demand for drugs, influenced by the spread of chronic disease and the consequent increase in healthcare needs, has led to the enhanced consumption of high-purity sulfuric acid. Industry

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regulatory needs for high purity to be maintained at the level of drug manufacturing has also focused greater attention on using ultra-pure chemicals. Increased dependence on high-purity sulfuric acid for quality and precision has also been driven by the expansion of biopharmaceuticals, individualized medicine, and advanced drug formulation. India and China, having enormous pharmaceutical production capacity, are setting up high-purity chemical plants to supply globally acceptable quality. Expanded manufacture of vaccines and specialty drugs, especially in response to global health concerns, has further fueled demand.

“Asia pacific is the fastest growing market for High-Purity Sulfuric Acid .”

The Asia Pacific is the fastest-growing market for high-purity sulfuric acid due to its booming semiconductor and electronics industry, which is the largest consumer of the chemical. China, South Korea, Taiwan, and Japan are leading the globe in semiconductor manufacturing, and they require high-purity sulfuric acid for wafer washing, etching, and other exact processes. The area also benefits from rising investments in pharma production, specifically in India and China, where the need for ultra-pure chemicals is growing with stringent quality regulations. Furthermore, the development of advanced technologies, such as 5G, artificial intelligence, and electric vehicles, has also propelled the need for semiconductor components, subsequently increasing the demand for high-purity sulfuric acid.

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 High-Purity Sulfuric Acid market, and information was gathered from secondary research to determine and verify the market size of several segments.

By Company Type: Tier 1 – 50%, Tier 2 – 30%, and Tier 3 – 20%

By Designation: Managers– 15%, Directors – 20%, and Others – 65%

By Region: North America – 25%, Europe – 15%, APAC – 55%, Rest of the World –5%.

The High-Purity Sulfuric Acid market comprises major Sumitomo Chemical Co., Ltd. (Japan), KANTO KAGAKU (Japan), LS MnM Inc. (South Korea), FUJIFILM Wako Pure Chemical Corporation (Japan), BASF (Germany), PVS Chemicals (US), Chemtrade

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Logistics (Canada), KOREA ZINC (South Korea), LANXESS (Germany), GRILLO-Werke AG (Germany), Huizhou Bailihong Holdings Co., Ltd. (China), Avantor, Inc. (US), Merck KGaA (Germany) . The study includes in-depth competitive analysis of these key players in the High-Purity Sulfuric Acid market, with their company profiles, recent developments, and key market strategies.

Research Coverage

This report segments the market for High-Purity Sulfuric Acid market on the basis of grade, application, end-use industry, 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, and expansions associated with the market for High-Purity Sulfuric Acid 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 of the competitive landscape; emerging and high-growth segments of the High-Purity Sulfuric Acid market; high-growth regions; and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of drivers: (Surge in demand from semiconductor and electronics industries), restraints (Complex production, high manufacturing costs, and stringent safety & environmental regulations), opportunities (Advancements in production processes), and challenges (Contamination risks due to penetration of metallic ions) influencing the growth of High-Purity Sulfuric Acid market.

Market Penetration: Comprehensive information on the High-Purity Sulfuric Acid market offered by top players in the global High-Purity Sulfuric Acid market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, new product launches, expansions, and partnerships in the High-Purity Sulfuric Acid market.

Market Development: Comprehensive information about lucrative emerging

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markets the report analyzes the markets for High-Purity Sulfuric Acid market across regions.

Market Capacity: Production capacities of companies producing High-Purity Sulfuric Acid are provided wherever available with upcoming capacities for the High-Purity Sulfuric Acid market.

Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the High-Purity Sulfuric Acid market.

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