

Ceramic Substrate - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029

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Report description:

The Ceramic Substrate Market size is estimated at USD 8.05 billion in 2024, and is expected to reach USD 10.98 billion by 2029, growing at a CAGR of 6.42% during the forecast period (2024-2029).

The ceramic substrate market was negatively impacted by COVID-19 in 2020. However, post-COVID-19 pandemic, the industries are recovering fast and are estimated to rise in the coming years, which will stimulate the demand for the ceramic substrate market.

Key Highlights

- The major factor driving the market studied are the increasing demand for ceramic substrates over metal and the rise in the adoption of ceramic substrates in electronics applications.
- The high cost associated with the use of ceramic substrate and prone to damage and need careful handling during assembly and testing is expected to act as a restraint for the ceramic substrate market during the forecast period.
- Increasing demand from the medical industry and emerging applications in the automotive industry is an opportunity for ceramic substrate market during the forecast period.
- Asia-Pacific region represents the largest market and is also expected to be the fastest-growing market over the forecast period owing to the increasing consumption from countries such as China, India, and Japan.

Ceramic Substrate Market Trends

Increasing Demand from the Semiconductor Industry

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- Ceramic substrate plays an important role in enabling developments in the semiconductor industry through their essential role in manufacturing.
- Semiconductor manufacturers use ceramic substrates such as alumina, beryllium oxide, and aluminum nitride. These materials are used in the semiconductor industry owing to their properties such as hard and resistant to wear, resistant to strong acid and alkali at high temperatures, good thermal conductivity, extremely high bulk resistivity, very low dielectric constant and loss tangent among others.
- The global semiconductor industry is growing at a healthy rate in recent times, owing to the demand for technologies such as autonomous driving, artificial intelligence, etc.
- According to the Semiconductor Industry Association (SIA), in 2022, the worldwide sales of semiconductors reached to USD 574 billion which was increase by 3.3% compared to 2021 at USD 555.9 billion.
- According to World Semiconductor Trade Statistics (WSTS), In 2022, all geographical regions exhibited double-digit growth in trade of semiconductors. The Americas region has increased by 17.0%, Europe by 12.6%, and Japan by 10.0%. However, The growth of Asia-Pacific has declined by 2.0% in the same year.
- Therefore, the growing semiconductor industry is expected to boost the demand for ceramic substrates incoming years.

Asia-Pacific Region to Dominate the Market

- Asia-Pacific region is expected to account for the largest market and is also forecasted to be the fastest-growing region for ceramic substrates during the forecast period.
- China is expected to become the largest market for electronics and semiconductor products over the coming years. According to the Industry, Science and Technology International Strategy Center (ISTI), the production value of Taiwan's semiconductor industry is anticipated to grow substantially, owing to the increasing demand for integrated circuit (IC) devices for artificial intelligence applications.
- The Chinese government has introduced the 'Made in China 2025' policy to increase the nation's self-sufficiency in integrated circuits production to 70% by 2025.
- According to Semiconductor Industry Association (SIA), in 2022, China dominated the semiconductor market with sales of USD 180.4 billion which declined as compared to 2021 by 6.2%.
- According to India Electronics and Semiconductor Association, the semiconductor component market in the country is expected to be worth USD 32.35 billion by 2025, displaying a CAGR of 10.1%. In addition, the ongoing Make in India initiative by the government is expected to result in investments in the semiconductor industry in the country.
- Additionally, India Electronics and Semiconductor Association (IESA) signed a MoU with Singapore Semiconductor Industry Association (SSIA) to establish and develop trade and technical cooperation between the electronics and semiconductor industries of both the countries. This is expected to result in development of various break-through semiconductor manufacturing technologies that would further increase the scope for the consumption of ceramic substrate in semiconductor manufacturing in India.
- Japan currently has about 30 semiconductor fabrication industries, which are involved in manufacturing of various types of semiconductor chips. Japan's semiconductor supply chain provides one third of the world's semiconductor manufacturing equipment and more than half of the industry's materials.
- Furthermore, countries such as Philippines and South Korea have also been contributing to the growth of the market studied lately.
- The above mentioned factors are expected to further drive the demand for ceramic substrate market in Asia-Pacific over the forecast period.

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Ceramic Substrate Industry Overview

The Global Ceramic Substrate market is partially consolidated with the presence of significant competitors in the market. The major companies in the market are Corning Incorporated, CoorsTek Inc. TOSHIBA MATERIALS Co. LTD., KYOCERA Corporation, and Yokowo co., ltd. among others.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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