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Sapphire Technology Market by Growth Technologies (KY, CZ, HEM, and EFG), Substrate Wafer (Si-on-Sapphire, SiC-on-Sapphire, GaN-on-Sapphire, and Others), Devices, Applications, and Geography - Analysis & Forecast to 2013 - 2020

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Abstracts

The Global Sapphire market in Semiconductors report analyzes the sapphire ecosystem and key application markets that includeLED, displays, consumer appliances, aerospace and defense, and other applications. The technology market covers the market share of different technologies for production of sapphire, as well as the different available shapes and sizes of sapphire. Revenue estimates and forecasts are provided from 2013 to 2020 for the sapphiremarket in semiconductors. It gives a detailed view of the major geographic regions in the sapphire market such as Americas, Europe, Asia–Pacific (APAC), and Rest of the World (ROW). The report discusses about the most recent happenings of the market with winning imperatives and burning issues.

The penetration of sapphire in the industrial, power and aerospace & defense industry is explosive due to the developments in sapphire wafer production. One of the major reasons for high growth in opto semiconductor applications is the effective cost structureof sapphire substrates.

The major market for thesapphire market in semiconductors lie in APAC countries, such as South Korea, Japan, Taiwan, China, and so on. The Americas and Europe is following the market. Some of the major players of the sapphire technology ecosystem are Rubicon Technology (U.S.), Insaco Inc. (U.S.), GT Advanced Technology (U.S.), Monocrystal (Russia), Kyocera (Japan), DK Aztec Co., Ltd. (Korea), Saint-Gobain Crystals (France), Tera Xtal (China), and Sumitomo Chemical Co., Ltd. (Japan).

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This report is focused on giving a detailed view on the complete sapphire industry with regards to the substrate market, along with the detailed market segmentations combined with qualitative analysis at each and every aspect of the classifications done by devices, characteristics, application, sub-applications, and geography. All the numbers, that is, both - revenue and volume, at every level of detail, are forecasted till 2020 to give a glimpse of the potential revenue base in this market.

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About

With the ever-increasing evolution of sapphire substrate in material landscape, there is a surge in the demand for sapphire-based products and devices to employ in the number of commercialized applications. During the extensive research carried out in search of an alternate semiconductor material in the previous century with most amazing properties, sapphire proved useful in semiconductors market such as high-brightness emission and intensity when used in opto-semiconductors, high power efficiency in LED and other power devices, extensively flexible, and low cost.

The penetration of sapphire was in industrial and power sector with the development of sapphire wafers that were used in power IC and RFIC applications. While the penetration growth rate is healthy and substantial in power semiconductors, the penetration rate in opto semiconductors and aerospace and defense industry is explosive. One of the major reason for such a high growth in opto semiconductor applications is due to the increase in the LED demand since the inception , and the cost at which the sapphire substrate are available created a buzz in optical semiconductor sector. With new advancements in technologies, it was possible to produce larger sapphire windows that could be used in aerospace and defense industry.

According to the geography, APAC has the major share in the overall sapphire semiconductors market within which South Korea enjoys the major market chunk in this industry.

The sapphire substrate market value is expected to grow from $XX million in 2013 to $XX million in 2020, at an estimated CAGR of XX% from 2014 to 2020. The Si-on-sapphire market accounted for the largest share, that is, $XX million in 2013 and is expected to reach $XX million in 2020, at a CAGR of XX% from 2014 to 2020. As LED is the major application of the sapphire semiconductor market and Si-on-sapphire represents the major market chunk for LED, it is fuelling the overall growth of Si-on-sapphire market. SiC-on-sapphire is the next biggest market for sapphire substrate and accounted for $XX million in 2013 and is expected to reach $XX million in 2020, at a CAGR of XX% from 2014 to 2020.

GaN-on-sapphire market accounted for the highest growth rate across the forecast period, that is, XX% from 2014 to 2020. The reason behind this exponential growth is high-end demand from the application verticals such as aerospace and consumer

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