

Global Synthetic diamond Market Size study, by Type(Polished, Rough), by Manufacturing Process(High Pressure, High Temperature (HPHT), Chemical Vapor Deposition (CVD)), and Regional Forecasts 2021-2027

<https://marketpublishers.com/r/G5D382A1D30AEN.html>

Date: August 2021

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G5D382A1D30AEN

Abstracts

Global Synthetic diamond Market is valued at approximately USD 18.36 billion in 2020 and is anticipated to grow with a healthy growth rate of more than 7% over the forecast period 2021-2027. The high-pressure, high-temperature (HPHT) procedure and the chemical vapour deposition (CVD) method are the two main methods for creating synthetic diamonds, also known as artificial diamonds. Construction, electronics, mining, oil and gas, and other end-user sectors are among the industries that use it the most. As semiconductors have become more incorporated in an ever-increasing variety of products, from cars to coffee makers, and emergent technologies, such as artificial intelligence, virtual reality, and the Internet of Things, demand is likely to rise during the projection period (IoT). The ability of synthetic diamond to distribute heat is unrivalled. Synthetic diamond is utilized to make smaller and more powerful electronics when employed as a semiconductor, boosting its application in radio frequency (RF) and power device types. Furthermore, the diamond is used in telecommunication information transfers because of its high refractive index, which minimizes information loss during high-speed transmissions. China's electronic manufacturers are attempting to upgrade to high-end manufacturing and intelligent manufacturing. As per World Trade Organization, apart from China, the ASEAN area is the world's largest supplier of electronics, accounting for almost 25% of the region's total products exports. Japan also contributes significantly to the electronics and information technology industries. Similarly, as per Congressional Research Service, the Japanese electronics and information technology sectors were valued at around USD 327 billion in 2020, and are expected to reach around USD 340 billion in 2021, with a growth rate of around 4%,

stimulating demand for synthetic diamonds. In the stone and construction industries, synthetic diamonds are commonly employed. After the United States, China's healthcare industry is the second largest in the world, with a revenue of USD 1.1 trillion in 2019. By 2030, China is predicted to account for 25% of the global healthcare industry's revenue. The demand for synthetic diamond in medical applications is likely to rise as a result of this. One of the fastest-growing market segments in China is medical devices. The country has a small number of private hospitals, and healthcare product procurement is dominated by large public hospitals, resulting in an increase in the use of medical devices in public hospitals. The demand for synthetic diamonds in the business was fueled by this factor. However, Lack of strong marketing and branding structure may impede the market growth over the forecast years.

The regional analysis of the Global Synthetic diamond Market is segmented for the key regions such as North America, Europe, Asia Pacific, Latin America, and Rest of the World (ROW). Asia Pacific is the dominating region across the world in terms of market share due to high manufacturing activities by numerous end-user industries in the region. Whereas North America is also anticipated to exhibit the highest growth rate over the forecast period 2021-2027, due to the increasing interest of consumers in synthetic diamonds across the region.

Major market player included in this report are:

Applied Diamond Inc.
AOTC
Element Six UK Ltd
Henan Huanghe Whirlwind Co.
ILJIN Diamond
New Diamond Technology LLC
Pure Grown Diamonds
Scio Diamond Technology Corporation
Sumitomo Electric Industries Ltd
Swarovski

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report

shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Polished

Rough

By Manufacturing Process:

High Pressure, High Temperature (HPHT)

Chemical Vapor Deposition (CVD)

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2017, 2018-19

Base year – 2019-2020

Forecast period – 2021 to 2027.

Target Audience of the Global Synthetic diamond Market in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists

Value-Added Resellers (VARs)

Third-party knowledge providers

Investment bankers

Investors

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