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Sapphire Glass Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global sapphire glass market size reached US$ 1,076 Million in 2022. Looking forward, IMARC Group expects the market to reach US$ 2,817 Million by 2028, exhibiting a growth rate (CAGR) of 17.6% during 2023-2028.

Sapphire glass is a synthetically manufactured crystal that exhibits similar hardness as diamond, which makes it highly durable. Typically produced in cylindrical sticks, called boules, the production of sapphire glass is an expensive, energy-intensive and slow process. It features high resistance to thermal shock with a melting point of 2030 degrees Celsius, coupled with a compressive strength of 2000 mega Pascals, which makes it stronger than stainless steel. The durable properties of sapphire glass make it ideal for use in the manufacturing of consumer electronic devices that utilize digital output displays, such as tablets, smartphones and laptops. Other than this, sapphire glass is also used in the production of products such as watches, bullet-proof glass, windows of armored vehicles, and visors or screens in military body armor suits.

In recent years, there has been a significant rise in the usage of sapphire glass in various sectors, including defense, military, safety equipment and medical devices. In the defense and aerospace industries, sapphire glass is widely utilized in commercial aircraft, such as Gulfstream, and military platforms, such as the F-35 Joint Strike Fighter. Besides this, manufacturers across the globe are increasingly using this material in the production of transparent armor systems, countermeasure systems, electro-optical windows, and vision systems. The escalating demand for sapphire glass can also be attributed to the increasing production of medical surgical systems, where it is used in optical medical analysis devices. Moreover, sapphire glass is widely required in volatile industrial environments, such as in the petrochemical industry, that experience harsh conditions, and high temperatures and pressure. This requirement

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has prompted industry players to manufacture more versatile products, such as sapphire glass windows that can be installed in flame detectors and analyzers for hazardous materials and combustible gas leaks.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each sub-segment of the global sapphire glass market report, along with forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on product type and application.

Breakup by Product Type:

High Grade Transparency Sapphire Glass
General Transparency Sapphire Glass

General transparency sapphire glass is the most popular product in the market.

Breakup by Application:

Smartphones
Watches
Optical and Mechanical Instruments
Safety Establishments
Medical Devices
Others

At present, smartphones represent the largest application segment.

Regional Insights:

North America
Europe
Asia Pacific
Middle East and Africa
Latin America

On the geographical front, Asia Pacific represents the biggest market, accounting for the majority of the market share.

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Competitive Landscape:

The report has also analyzed the competitive landscape of the market, with some of the key players being KYOCERA Corporation, Rayotek Scientific Inc., Rubicon Technology, Inc., Saint-Gobain Group, Crystran Ltd., Crystalwise Technology Inc., Monocrystal PLC, SCHOTT North America Inc. (SCHOTT AG), Swiss Jewel Company, GTAT Corporation, Precision Sapphire Technologies, Ltd, Sense-tech Innovation Company, Namiki Precision Jewel Co., Ltd., DK AZTEC Co., Ltd., and Tera Xtal Technology Corporation.

Key Questions Answered in This Report

1. What was the size of the global sapphire glass market in 2022?
2. What is the expected growth rate of the global sapphire glass market during 2023-2028?
3. What are the key factors driving the global sapphire glass market?
4. What has been the impact of COVID-19 on the global sapphire glass market?
5. What is the breakup of the global sapphire glass market based on the product type?
6. What is the breakup of the global sapphire glass market based on the application?
7. What are the key regions in the global sapphire glass market?
8. Who are the key players/companies in the global sapphire glass market?

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