

Sapphire Glass Market Size Analysis Report - Market Share, Forecast Trends and Outlook (2025-2034)

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Report description:

The global sapphire glass market value reached around USD 799.87 Million in 2024 due to rising demand for consumer electronics. High-end smartphones like the Apple iPhone use sapphire glass for their screens due to its exceptional scratch resistance. Additionally, technological advancements in manufacturing processes have made sapphire glass more cost-effective and widely available. As a result, the industry is expected to grow at a CAGR of 6.20% during the forecast period of 2025-2034 to attain a value of USD 1459.70 Million by 2034 . Product's expanding use in sectors such as defense and aerospace is expected to further broaden the market's appeal.

Sapphire Glass Market Growth

Sapphire glass is a synthetically manufactured transparent crystal and one of the hardest substances after diamonds. It has high durability, brilliance, and resistance against abrasions and chemicals. The durable property of sapphire glass makes it ideal for the manufacturing of consumer electronic devices that use digital output displays, such as smartphones, tablets, and laptops. It also features high resistance to thermal shock with a melting point of 2030 degrees Celsius, along with a compressive strength of 2000 mega Pascals, which makes it more robust than any stainless steel. Besides, it is also used in the production of watches, bulletproof glass, windows of armoured vehicles, and visors or screens in military body armour suits. These favourable properties of sapphire glass have contributed to sapphire glass demand growth.

Sapphire glass offers good thermal conductivity, high tensile strength, and enhanced optical transparency to a wide range of wavelengths. Sapphire glass has applications in various end-use industries such as ballistic and defence applications. It is also utilised in the manufacturing of bulletproof glass, missile domes, electro-optic and FLIR windows, infrared windows, transparent armour, countermeasure systems, and targeting system components. Moreover, it can also be employed in laser hair removal systems, endoscope lenses, and surgical blades. Increasing adoption of these devices in the medical and healthcare industries is further propelling the growth of the sapphire glass market over the forecast period.

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Also, the booming electronics industry is further witnessing an increased utilisation of sapphire glass for the manufacturing of LED screens in various devices such as televisions, mobile phones, laptops, and computer sets. Moreover, the product is being widely adopted in volatile industrial environments that experience harsh conditions, which is prompting the industry players to manufacture more versatile products, such as sapphire glass windows.

Key Trends and Developments

Expanding applications in the automotive industries, advancements in production technologies, and increasing demand in consumer electronics are the key trends propelling the market growth.

September 2024

Helios launched the Italian luxury watch brand U-Boat, which uses glass made of sapphire crystal to enhance durability and scratch resistance. Sapphire glass not only protects the watch face but also provides a luxury appeal, which is why sapphire glass market value is rising in the watch segment.

September 2024

At the HUAWEI Innovative Product Launch event in Barcelona, Spain, Huawei unveiled an impressive array of fashion-forward wearables, including the HUAWEI WATCH GT 5 Series, HUAWEI WATCH D2, and a new green edition of the HUAWEI WATCH Ultimate. These watches features a sapphire crystal glass display.

September 2024

Samsung launched a Galaxy Watch Ultra smartwatch in India, which is equipped with sapphire crystal glass to protect the 1.5-inch AMOLED display and improve visibility in bright conditions. Rising integration of sapphire glasses in luxury watches have significantly influenced sapphire glass market dynamics and trends.

March 2024

An Australian children discovered a 14.5-carat sapphire worth an estimated USD 5,000-USD 10,000 just 200-300 metres away from his home in Rubyvale. This sudden discovery of sapphire, which is a luxury stone, can provide opportunities for the product to be used in luxury watch or jewellery segments.

Advancements in Production Technologies

Advancements in manufacturing technologies are making sapphire glass more accessible and cost-effective. Innovations like the Kyropoulos and Czochralski methods have improved production efficiency, leading to a 20% increase in yield rates for sapphire crystal growth in recent years. These improvements allow manufacturers to produce larger and thinner sapphire substrates, catering to a wider range of applications, such as optical devices and automotive displays. For example, GT Advanced Technologies reported a significant reduction in production costs, enabling them to supply sapphire glass for various industries, thus broadening their client base and resulting in increased sapphire glass market revenue.

Expansion into Aerospace and Defense Applications

The aerospace and defense sectors are increasingly adopting sapphire glass for applications requiring high durability and

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performance under extreme conditions. In 2024, the use of sapphire glass in aerospace components is expected to grow by 20%, with an estimated 1,200 units using sapphire windows in aircraft and sensor protection systems. The U.S. Air Force has begun integrating sapphire glass into advanced aircraft sensors, after knowing its capability to withstand harsh environments. Furthermore, contracts have been awarded for developing missile guidance systems that use sapphire windows, highlighting its critical role in defense applications.

Technological Advancements in Production

Recent advancements in manufacturing technologies are making sapphire glass more accessible and cost-effective. In 2024, it is anticipated that production efficiency will allow manufacturers to produce larger sapphire wafers with less waste. For instance, II-VI Optical Systems has implemented a new production line capable of creating wafers up to 300 mm in diameter, compared to the previous maximum of 200 mm. This improvement not only lowers production costs but also enhances the quality of the final products, increase sapphire glass market appeal across various industries.

Increasing Demand in Consumer Electronics

The market is witnessing significant growth driven by its application in consumer electronics, particularly in smartphones, smartwatches, and other wearable devices due to its superior durability and scratch resistance. In 2024, it is projected that approximately 65% of premium smartphones (around 450 million units) will feature sapphire glass displays, up from 50% (about 350 million units) in 2023. Companies like Apple are expanding their use of sapphire glass; for example, the latest iPhone models are expected to incorporate sapphire glass on camera lenses. This trend in the sapphire glass market has led a broader industry shift as many smartphone manufacturers are now exploring sapphire glass for display covers as well.

Sapphire Glass Market Trends

Sapphire glass is finding new applications beyond electronics, particularly in industries like healthcare, aerospace, and automotive. In healthcare, its high thermal resistance and durability have led to its use in over 50% of advanced medical imaging devices and surgical instruments. Similarly, in the automotive sector, the integration of sapphire glass in lighting solutions and dashboard displays is gaining traction. As per industry reports, 15% increase in adoption of sapphire glass is expected over the next few years. As the market evolves, manufacturers are likely to invest in research and development to create new products, enhancing their competitiveness and expanding their sapphire glass market share.

Furthermore, in 2024, it is estimated that 35% of new sapphire glass products (approximately 700 million units) will be marketed as eco-friendly. For instance, Kyocera Corporation has announced initiatives aimed at reducing carbon emissions during production by 30%, targeting a reduction from 100 tons to 70 tons per year by implementing renewable energy sources.

Opportunities in Sapphire Glass Market

One significant opportunity lies in the automotive sector, where the demand for advanced lighting solutions and durable vehicle displays is rising. For instance, with the automotive industry's push towards electric vehicles, manufacturers are exploring sapphire glass for headlamps and touch displays, projected to account for a 25% increase in sapphire glass usage by 2025, translating to a production of estimated 2 million units of sapphire components annually. Furthermore, the burgeoning market for smart and luxury wearables continues to drive sapphire glass market opportunities. Companies like Garmin and TAG Heuer are using sapphire glass in their premium products, with TAG Heuer reporting that over 70% of its watch models feature sapphire glass. Additionally, the healthcare industry is increasingly adopting sapphire glass for medical devices, including surgical instruments and imaging equipment, where its biocompatibility and scratch resistance are critical. Overall, these sectors indicate a robust growth trajectory for the market.

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Sapphire Glass Market Restraints

One major restraint is the high production cost associated with sapphire glass compared to conventional glass materials. The manufacturing processes, such as the Czochralski and Kyropoulos method, require significant energy consumption and precision, leading to costs that can be up to three times higher than those for standard glass. For example, a standard tempered glass cover may cost around USD 0.50 to USD 1.00 per unit, while a sapphire glass cover ranges from USD 3.00 to USD 5.00 per unit. This can impact sapphire glass demand forecast in affordable consumer electronics.

Additionally, the brittleness of sapphire glass poses challenges in terms of fragility during manufacturing and transportation, resulting in higher waste rates. Furthermore, the emergence of alternative materials, such as Gorilla Glass and other advanced composites, offers comparable durability at a lower cost, which can deter manufacturers from investing in sapphire glass.

Sapphire Glass Industry Segmentation

□Sapphire Glass Market Report and Forecast 2025-2034□ offers a detailed analysis of the market based on the following segments:

Market Breakup by Type

- High Grade Transparency Sapphire Glass
- General Transparency Sapphire Glass

Market Breakup by Application

- Smartphones
- Watches
- Optical and Mechanical Instruments
- Safety Establishments
- Medical Devices
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Sapphire Glass Market Share

Market Insights by Type

High-grade transparency sapphire glass is widely used in applications requiring exceptional optical clarity and high durability, such as luxury watches, optical components, and high-end smartphones. For example, Apple uses high-grade sapphire glass in its Apple Watch models to enhance screen durability and scratch resistance. The segment is also gaining traction in defense and medical equipment, as these industries demand robust materials for optical lenses and protective covers. According to sapphire

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glass industry analysis, this segment is growing at a CAGR of 6.7%, driven by rising demand in aerospace and semiconductor manufacturing.

In contrast, general transparency sapphire glass is typically employed in industries where the highest level of clarity is not critical, but durability and scratch resistance are still required. This type of sapphire glass finds applications in consumer electronics, such as smartphone camera lenses and biometric scanners. Companies like Huawei and Xiaomi uses general transparency sapphire glass in their camera lenses for added protection. Thus, general transparency sapphire glass demand is growing due to the rising use of sapphire glass in everyday consumer gadgets and automotive displays.

Market Insights by Application

Sapphire glass is extensively used in luxury watches for its scratch-resistant properties and aesthetic appeal. According to sapphire glass market overview, this segment has seen a steady growth rate in historic period and is anticipated to continue growing at a CAGR% of 7.1% in the forecast period. Rising disposable incomes of working and business class in regions like APAC, NA, and Europe have allowed them to afford and purchase high-end watches, like those offered by Apple, Rolex, Omega, Cavalli, and Guess, among others. Some of these brands, namely, Rolex and Omega widely use sapphire glass for the premium watch models.

The smartphone segment is one of the largest markets for sapphire glass, primarily due to its use in high-end devices. Sapphire glass is favoured for its heat and scratch resistance, making it ideal for screens and camera lenses. Over the forecast period, the smartphone segment is expected to grow at a CAGR of 6.6% as several leading smartphone brands (Apple, Xiomi, Samsung, etc.) are planning to incorporate sapphire glass in more affordable models, indicating a potential increase in sapphire glass market share. Moreover, according to a report from the U.S. Department of Commerce, the demand for sapphire glass in smartphones is expected to rise by 15% annually, further improving segment's growth.

The medical device industry also relies on sapphire glass for its use in equipment such as surgical tools and diagnostic instruments. The product offers high durability and biocompatibility, which is why it is used in endoscopes. According to sapphire glass market report, the use for sapphire glass in medical applications is expected to grow by 6.4% annually, driven by innovations in medical technology, increasing demand for high-performance materials, and ability of sapphire glass to provide a clear view while offering resistant to scratches and chemicals.

Sapphire Glass Market Regional Insights

North America Sapphire Glass Market Trends

North America is one of the leading markets for sapphire glass, driven by technological advancements and high consumer demand for durable materials in electronics and luxury goods. The regional market is projected to grow at a CAGR of 6.1% annually till the year 2032, largely due to increased applications of sapphire in smartphones and medical devices. Companies like Apple and Corning Inc. are key players in the North American sapphire glass market, and they are investing in advanced sapphire glass manufacturing technologies. Moreover, the United States and Canadian market for sapphire glass is expected to grow at robust CAGR of 6.0% and 3.2%, respectively, demonstrating market's potential.

Asia Pacific Sapphire Glass Market Drivers

The market for sapphire glass in Asia Pacific is expected to grow at a CAGR of 7.4% from 2024 to 2032, with India and China growing at a CAGR of 7.8% and 7.3%. This growth can be attributed to the rising smartphone penetration and demand for luxury goods in these countries. Moreover, in January 2024, recent government initiatives in China to promote high-tech industries were

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announced, which include investments in sapphire glass manufacturing. The Chinese government aims to boost local production capabilities by 25% within the next two years, particularly for smartphones. Similarly, in India, Sapphire Tuff (a glass manufacturing company) unveiled a state-of-the-art glass processing plant in Pune in January 2024 to enhance the production of high-quality sapphire glass solutions. Manufacturers like Kyocera and Shenzhen KSTAR Science and Technology Co., Ltd. are also expanding their glass production capacities.

Europe Sapphire Glass Market Opportunities

The European market is projected to grow at a CAGR of 5.7% over the next few years, driven by increasing demand for high-quality luxury watches, optical devices, and safety equipment. In EU, the United Kingdom leads the market share and is anticipated to grow at a CAGR of 5.9% annually till 2032. Renowned brands such as Swatch Group and Richemont use sapphire glass extensively in their watch models, contributing to the region's sapphire glass market expansion. Moreover, in March 2023, a consortium of European manufacturers announced a collaborative effort to innovate in sapphire glass production techniques, aiming to enhance sustainability in the manufacturing process. This initiative is expected to reduce the carbon footprint of sapphire glass production by 15% over the next five years.

Middle East and Africa Sapphire Glass Market Growth

The Middle East and Africa region represents a niche market for sapphire glass and is expected to grow at a CAGR of 6.9% through 2032, largely influenced by rising demand in the construction and automotive sectors. Sapphire glass is increasingly being used in safety eyewear and protective gear offered by companies like Alcon and Luxottica. Moreover, the UAE government is focused on increasing the use of high-tech materials in construction and defence sector. This has also led to funding for research and development in sapphire glass technologies.

Innovative Start-ups in Sapphire Glass Market

Start-ups are developing cost-effective manufacturing processes to lower production costs and enhance yield, making sapphire glass more competitive against alternative materials, such as gorilla glass. Additionally, start-ups are exploring niche applications in sectors like automotive, healthcare, and luxury consumer electronics, leveraging the material's many properties. Some are also investing in research and development to create advanced coatings and enhancements, such as anti-reflective and self-cleaning surfaces, to meet specific industry demands. Some start-ups that have worked towards sapphire glass market development are:

Sapphire Glass Technologies, Inc. , established in 2015 and based in Texas, United States, focuses on the production of high-quality sapphire glass products for consumer electronics and optical markets. The company aims to meet the increasing demand for durable, scratch-resistant materials in smart devices, wearables, and specialty optical applications. It has experienced a 200% increase in revenue year-over-year since its founding and has secured contracts with major electronics manufacturers like Samsung and Sony. Their production capacity has expanded to over 500,000 square inches of sapphire glass substrates annually, which has significantly impacted sapphire glass industry revenue.

Crystal IS, Inc. , founded in 2006 and headquartered in New York, United States, specialises in the development and manufacturing of advanced ultraviolet (UV) light-emitting diode (LED) technology and sapphire substrates. The company focuses on providing custom sapphire substrate fabrication, UV-LED solutions for water and air disinfection, and technical support for integrating UV technology into existing systems. The company has achieved over USD 30 million in funding to expand its UV-LED technology. The company's products have been used in over 150 installations worldwide for municipal water treatment and industrial applications.

Competitive Landscape

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Sapphire glass market outlook seems to be positive as companies like Apple and Samsung are leveraging sapphire glass in their premium devices, such as the Apple Watch; manufacturers like GT Advanced Technologies are expanding their production capacities to meet the growing demand from various sectors, including consumer electronics and automotive industries; and organisations such as Kyocera are investing in cutting-edge manufacturing processes to lower production costs and improve the quality of sapphire glass. They are also exploring partnerships with tech firms to integrate sapphire glass into new applications. This enables them to offer competitive pricing while maintaining high standards. The luxury watch segment is another focus for market players.

KYOCERA Corporation

KYOCERA Corporation, founded in 1959 and based in Kyoto, Japan, is a Japanese multinational specialising in ceramics and electronics. Initially established as Kyoto Ceramic Company, it has diversified its offerings to include solar power systems, telecommunications equipment, and electronic components.

Rayotek Scientific Inc.

Rayotek Scientific Inc., another key player in sapphire glass market, was founded in 1992 and is headquartered in California, United States. Initially established as a research and development firm, it is now a full-service manufacturer specialising in precision sapphire, glass, fused quartz, and fused silica products for aerospace, defense, and telecommunications industries.

Rubicon Technology Inc.

Rubicon Technology Inc. (acquired by Specialty Optical Systems, Inc) was founded in 2002 and based in Illinois, United States. It is a semiconductor materials and device manufacturing company that produces monocrystalline sapphire products, which are essential for LED lighting and consumer electronics like smartphone camera lens covers.

SCHOTT North America, Inc.

SCHOTT North America, Inc. is a subsidiary of SCHOTT AG, which was founded in 1884. Based in Pennsylvania, United States, the company is a leader in speciality glass and glass-ceramics. The company produces optical components and packaging solutions for healthcare, electronics, and automotive industries.

Other sapphire glass market players include Monocrystal, Precision Sapphire Technologies, Ltd, STC, Saint Gobain SA, Crystran Ltd., and Crystalwise Technology Inc., among others.

Table of Contents:

- 1 Executive Summary
 - 1.1 Market Size 2024-2025
 - 1.2 Market Growth 2025(F)-2034(F)
 - 1.3 Key Demand Drivers
 - 1.4 Key Players and Competitive Structure
 - 1.5 Industry Best Practices
 - 1.6 Recent Trends and Developments
 - 1.7 Industry Outlook

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- 2 Market Overview and Stakeholder Insights
 - 2.1 Market Trends
 - 2.2 Key Verticals
 - 2.3 Key Regions
 - 2.4 Supplier Power
 - 2.5 Buyer Power
 - 2.6 Key Market Opportunities and Risks
 - 2.7 Key Initiatives by Stakeholders
- 3 Economic Summary
 - 3.1 GDP Outlook
 - 3.2 GDP Per Capita Growth
 - 3.3 Inflation Trends
 - 3.4 Democracy Index
 - 3.5 Gross Public Debt Ratios
 - 3.6 Balance of Payment (BoP) Position
 - 3.7 Population Outlook
 - 3.8 Urbanisation Trends
- 4 Country Risk Profiles
 - 4.1 Country Risk
 - 4.2 Business Climate
- 5 Global Sapphire Glass Market Analysis
 - 5.1 Key Industry Highlights
 - 5.2 Global Sapphire Glass Historical Market (2018-2024)
 - 5.3 Global Sapphire Glass Market Forecast (2025-2034)
 - 5.4 Global Sapphire Glass Market by Type
 - 5.4.1 High Grade Transparency Sapphire Glass
 - 5.4.1.1 Historical Trend (2018-2024)
 - 5.4.1.2 Forecast Trend (2025-2034)
 - 5.4.2 General Transparency Sapphire Glass
 - 5.4.2.1 Historical Trend (2018-2024)
 - 5.4.2.2 Forecast Trend (2025-2034)
 - 5.5 Global Sapphire Glass Market by Application
 - 5.5.1 Smartphones
 - 5.5.1.1 Historical Trend (2018-2024)
 - 5.5.1.2 Forecast Trend (2025-2034)
 - 5.5.2 Watches
 - 5.5.2.1 Historical Trend (2018-2024)
 - 5.5.2.2 Forecast Trend (2025-2034)
 - 5.5.3 Optical and Mechanical Instruments
 - 5.5.3.1 Historical Trend (2018-2024)
 - 5.5.3.2 Forecast Trend (2025-2034)
 - 5.5.4 Safety Establishments
 - 5.5.4.1 Historical Trend (2018-2024)
 - 5.5.4.2 Forecast Trend (2025-2034)
 - 5.5.5 Medical Devices
 - 5.5.5.1 Historical Trend (2018-2024)
 - 5.5.5.2 Forecast Trend (2025-2034)

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- 5.5.6 Others
- 5.6 Global Sapphire Glass Market by Region
 - 5.6.1 North America
 - 5.6.1.1 Historical Trend (2018-2024)
 - 5.6.1.2 Forecast Trend (2025-2034)
 - 5.6.2 Europe
 - 5.6.2.1 Historical Trend (2018-2024)
 - 5.6.2.2 Forecast Trend (2025-2034)
 - 5.6.3 Asia Pacific
 - 5.6.3.1 Historical Trend (2018-2024)
 - 5.6.3.2 Forecast Trend (2025-2034)
 - 5.6.4 Latin America
 - 5.6.4.1 Historical Trend (2018-2024)
 - 5.6.4.2 Forecast Trend (2025-2034)
 - 5.6.5 Middle East and Africa
 - 5.6.5.1 Historical Trend (2018-2024)
 - 5.6.5.2 Forecast Trend (2025-2034)
- 6 North America Sapphire Glass Market Analysis
 - 6.1 United States of America
 - 6.1.1 Historical Trend (2018-2024)
 - 6.1.2 Forecast Trend (2025-2034)
 - 6.2 Canada
 - 6.2.1 Historical Trend (2018-2024)
 - 6.2.2 Forecast Trend (2025-2034)
- 7 Europe Sapphire Glass Market Analysis
 - 7.1 United Kingdom
 - 7.1.1 Historical Trend (2018-2024)
 - 7.1.2 Forecast Trend (2025-2034)
 - 7.2 Germany
 - 7.2.1 Historical Trend (2018-2024)
 - 7.2.2 Forecast Trend (2025-2034)
 - 7.3 France
 - 7.3.1 Historical Trend (2018-2024)
 - 7.3.2 Forecast Trend (2025-2034)
 - 7.4 Italy
 - 7.4.1 Historical Trend (2018-2024)
 - 7.4.2 Forecast Trend (2025-2034)
 - 7.5 Others
- 8 Asia Pacific Sapphire Glass Market Analysis
 - 8.1 China
 - 8.1.1 Historical Trend (2018-2024)
 - 8.1.2 Forecast Trend (2025-2034)
 - 8.2 Japan
 - 8.2.1 Historical Trend (2018-2024)
 - 8.2.2 Forecast Trend (2025-2034)
 - 8.3 India
 - 8.3.1 Historical Trend (2018-2024)

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- 8.3.2 Forecast Trend (2025-2034)
- 8.4 ASEAN
 - 8.4.1 Historical Trend (2018-2024)
 - 8.4.2 Forecast Trend (2025-2034)
- 8.5 Australia
 - 8.5.1 Historical Trend (2018-2024)
 - 8.5.2 Forecast Trend (2025-2034)
- 8.6 Others
- 9 Latin America Sapphire Glass Market Analysis
 - 9.1 Brazil
 - 9.1.1 Historical Trend (2018-2024)
 - 9.1.2 Forecast Trend (2025-2034)
 - 9.2 Argentina
 - 9.2.1 Historical Trend (2018-2024)
 - 9.2.2 Forecast Trend (2025-2034)
 - 9.3 Mexico
 - 9.3.1 Historical Trend (2018-2024)
 - 9.3.2 Forecast Trend (2025-2034)
 - 9.4 Others
- 10 Middle East and Africa Sapphire Glass Market Analysis
 - 10.1 Saudi Arabia
 - 10.1.1 Historical Trend (2018-2024)
 - 10.1.2 Forecast Trend (2025-2034)
 - 10.2 United Arab Emirates
 - 10.2.1 Historical Trend (2018-2024)
 - 10.2.2 Forecast Trend (2025-2034)
 - 10.3 Nigeria
 - 10.3.1 Historical Trend (2018-2024)
 - 10.3.2 Forecast Trend (2025-2034)
 - 10.4 South Africa
 - 10.4.1 Historical Trend (2018-2024)
 - 10.4.2 Forecast Trend (2025-2034)
 - 10.5 Others
- 11 Market Dynamics
 - 11.1 SWOT Analysis
 - 11.1.1 Strengths
 - 11.1.2 Weaknesses
 - 11.1.3 Opportunities
 - 11.1.4 Threats
 - 11.2 Porter's Five Forces Analysis
 - 11.2.1 Supplier's Power
 - 11.2.2 Buyer's Power
 - 11.2.3 Threat of New Entrants
 - 11.2.4 Degree of Rivalry
 - 11.2.5 Threat of Substitutes
 - 11.3 Key Indicators for Demand
 - 11.4 Key Indicators for Price

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- 12 Value Chain Analysis
- 13 Price Analysis
- 14 Competitive Landscape
 - 14.1 Supplier Selection
 - 14.2 Key Global Players
 - 14.3 Key Regional Players
 - 14.4 Key Player Strategies
 - 14.5 Company Profiles
 - 14.5.1 KYOCERA Corporation
 - 14.5.1.1 Company Overview
 - 14.5.1.2 Product Portfolio
 - 14.5.1.3 Demographic Reach and Achievements
 - 14.5.1.4 Certifications
 - 14.5.2 Rayotek Scientific Inc.
 - 14.5.2.1 Company Overview
 - 14.5.2.2 Product Portfolio
 - 14.5.2.3 Demographic Reach and Achievements
 - 14.5.2.4 Certifications
 - 14.5.3 Rubicon Technology Inc.
 - 14.5.3.1 Company Overview
 - 14.5.3.2 Product Portfolio
 - 14.5.3.3 Demographic Reach and Achievements
 - 14.5.3.4 Certifications
 - 14.5.4 Monocrystal
 - 14.5.4.1 Company Overview
 - 14.5.4.2 Product Portfolio
 - 14.5.4.3 Demographic Reach and Achievements
 - 14.5.4.4 Certifications
 - 14.5.5 SCHOTT North America, Inc.
 - 14.5.5.1 Company Overview
 - 14.5.5.2 Product Portfolio
 - 14.5.5.3 Demographic Reach and Achievements
 - 14.5.5.4 Certifications
 - 14.5.6 Precision Sapphire Technologies, Ltd
 - 14.5.6.1 Company Overview
 - 14.5.6.2 Product Portfolio
 - 14.5.6.3 Demographic Reach and Achievements
 - 14.5.6.4 Certifications
 - 14.5.7 STC
 - 14.5.7.1 Company Overview
 - 14.5.7.2 Product Portfolio
 - 14.5.7.3 Demographic Reach and Achievements
 - 14.5.7.4 Certifications
 - 14.5.8 Saint Gobain SA
 - 14.5.8.1 Company Overview
 - 14.5.8.2 Product Portfolio
 - 14.5.8.3 Demographic Reach and Achievements

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- 14.5.8.4 Certifications
- 14.5.9 Crystran Ltd.
 - 14.5.9.1 Company Overview
 - 14.5.9.2 Product Portfolio
 - 14.5.9.3 Demographic Reach and Achievements
 - 14.5.9.4 Certifications
- 14.5.10 Crystalwise Technology Inc.
 - 14.5.10.1 Company Overview
 - 14.5.10.2 Product Portfolio
 - 14.5.10.3 Demographic Reach and Achievements
 - 14.5.10.4 Certifications
- 14.5.11 Others

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Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-03"/>
		Signature	

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