

Optical Ceramics Market Size is Anticipated to Worth USD 680.0 Million at a CAGR of 15.3% by 2028 | Reports and Data

Increased application of optical ceramics in optics and optoelectronics, aerospace and defence and security industries are key factors of market Revenue Growth.

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/EINPresswire.com/ -- According to the current analysis of Reports and Data, the global [Optical Ceramics market](#) was

valued at USD 213.3 Million in 2020 and is expected to reach USD 680.0 Million by year 2028, at a CAGR of 15.3 %. The study the genre of advanced materials with focus on Optical Ceramics. They are transparent polycrystalline materials that can be used as an alternative to single crystals scintillators. Polycrystalline materials are solids that are comprised of a collection of crystallites (grains), separated from another by areas of relative disorder known as grain boundaries. Optical ceramics are advanced industrial materials that have been developed for use in optical applications. The advantage of optical ceramics is the possibility of production of reasonably priced and large sized materials for large area detection. They derive their utility from their response to infrared, optical and ultraviolet light. Optical Ceramics are made of several types of materials. Each of this type is meant for a specific and a unique purpose. For instance, optical ceramics made from Spinel are optically transparent from near-ultraviolet through mid-wave infrared frequencies. On the other hand, optical ceramics made from Sapphire are optically transparent from near-ultraviolet through mid-wave infrared frequencies with mid-IR transmittance comparable to that of Sapphire itself. The optical ceramics market growth is attributed to the increasing use of optical ceramics in aerospace industry and in defense and security industry.

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Major companies: Saint-Gobain, Surmet Corporation, CeraNova, CeramTec, Kyocera and Schott AG.



Reports And Data

Further key findings from the report suggest

Optical ceramics are made of several kinds of materials such as Sapphire, Aluminum Oxynitride, Spinel and Yttrium Aluminum Garnet. Each type of optical ceramic has a different and a distinct property. The optical ceramics offer high transmission over the Visible-MWIR wavelength range, excellent refractive index homogeneity, and outstanding environmental durability. These are fairly light weight and have a strong durability. These features attract many industries.

Optical ceramics made of the material Sapphire is expected to grow at a CAGR of 16.1% followed by Spinel with a CAGR of 15.9% due to the increasing research and development in the sectors. The optical ceramics market is witnessing significant growth due to the growing demand for optical ceramics in medical applications and the need for reducing the cost of production by deploying optical ceramics in high-temperature applications.

Technological advancements and innovations in defense and security industry, such as, body armors and helmets as well as vehicles and aircrafts have been some of the significantly encouraging factors for the market. The continuous research and development in this field to increase the scope for applications and develop new products has led to achieving better efficiencies. The increased application of optical ceramics in aerospace and defense and security industries has been one of the driving factors.

Optics and Optoelectronics are expected to register the highest CAGR of 17.8% as glasses have limited scope in the segment.

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Segments covered in the report:

This report forecasts volume and revenue growth at a global, regional & country level, and provides an analysis on the industry trends in each of the sub-segments from 2016 to 2026. For the purpose of this study, Reports and Data have segmented the market on the basis of type, ingredient type, application and regional analysis.

Material (Revenue, USD Million; 2020–2028)

Aluminum oxynitride

Spinel

Yttrium Aluminum Garnet

Sapphire

Application (Revenue, USD Million; 2020–2028)

Aerospace, Defense and Security

Energy

Optics & Optoelectronics

Sensors and instrumentation
Consumer goods
Healthcare

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Regional Outlook (Revenue, USD Billion; 2020-2028)

North America
Europe
Asia Pacific
Latin America
Middle East & Africa

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