

Global Transparent Ceramics Market - Forecasts from 2018 to 2023

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Abstracts

The transparent ceramics market was valued at US\$242.808 million in 2017 and is projected to expand at a CAGR of 26.58% over the forecast period to reach US\$998.743 million by 2023. Transparent ceramics have gathered considerable attention in the last decade owing to their significant contribution in a variety of sectors such as aerospace & defence, consumer electronics, optics and optoelectronics and others. The increased demand for their application in sensors and the use of ceramic technology in lasers are expected to be the major factors fuelling the market growth. Some of the additional factors driving the growth performance of the transparent ceramics market are the growing demand for transparent ceramics as an alternative to the traditional glass technologies, growth of optics and optoelectronic sector, improved efficiency and the increasing defence expenditure. Various advancements are being made in this field like a group of researchers in the University of California have proposed the development of a transparent ceramic window, implanting this ceramic window in the skull will make possible the non invasive ultrasound treatment of the brain. Such research and development is further expected to present potential growth opportunities for the transparent ceramics market. Geographically, North America accounts for the majority of the market share and Asia Pacific region is expected to be the fastest growing market during the projected period. However, certain technological issues and the high prices of raw materials have increased the initial costs which acts as a major challenge for the growth of the market during the forecast period.

This research study examines the current market trends related to the demand, supply, and sales, in addition to the recent developments. Major drivers, restraints, and opportunities have been covered to provide an exhaustive picture of the market. The analysis presents in-depth information regarding the development, trends, and industry policies and regulations implemented in each of the geographical regions. Further, the

overall regulatory framework of the market has been exhaustively covered to offer stakeholders a better understanding of the key factors affecting the overall market environment.

Identification of key industry players in the industry and their revenue contribution to the overall business or relevant segment aligned to the study have been covered as a part of competitive intelligence done through extensive secondary research. Various studies and data published by industry associations, analyst reports, investor presentations, press releases and journals among others have been taken into consideration while conducting the secondary research. Both bottom-up and top down approaches have been utilized to determine the market size of the overall market and key segments. The values obtained are correlated with the primary inputs of the key stakeholders in the Transparent Ceramics value chain. Last step involves complete market engineering which includes analysing the data from different sources and existing proprietary datasets while using various data triangulation methods for market breakdown and forecasting.

Market intelligence is presented in the form of analysis, charts, and graphics to help the clients in gaining faster and efficient understanding of the market.

Major industry players profiled as part of the report are CeremTec, Surmet Corporation, Schott AG, Coorstek Inc. and Brightcrystals Technology, Inc. among others.

Segmentation

The Global Transparent Ceramics market has been analysed through following segments:

By Type

Monocrystalline

Polycrystalline

By Material

Sapphire

Yttrium Aluminium Garnet

Spinel

Aluminium Oxynitride

Others

By End-user Industry

Optics & Optoelectronics

Aerospace, Defense & Security

Chemical

Sensors & Instrumentation

Healthcare

Consumer Electronics

Energy

Others

By Geography

North America

United States

Canada

Mexico

Others

Europe

Germany

France

Italy

Spain

UK

Others

Asia Pacific

India

China

Japan

Australia

Others

Middle East and Africa

Saudi Arabia

UAE

Israel

Others

South America

Brazil

Argentina

Others

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