

Transparent Ceramics - Global Market Outlook (2017-2026)

<https://marketpublishers.com/r/TCA8E1EAEA7EN.html>

Date: August 2018

Pages: 170

Price: US\$ 4,150.00 (Single User License)

ID: TCA8E1EAEA7EN

Abstracts

According to Statistics MRC, the Global Transparent Ceramics Market is accounted for \$269.9 million in 2017 and expected to grow at a CAGR of 20.9% to reach \$1491.1 million by 2026. The efficiency to work as a substitute to glass, metal and plastics and the increasing aerospace & defence expenditure on advanced materials and technologies are some of the factors driving the market growth. However, the high cost associated with the transparent ceramics is restricting the market growth. The advancements happening in nanotechnology are set to provide ample opportunities in the market. It's non-recyclable and non-repairable nature is the possible challenges in the market.

Transparent ceramics come under visually transparent group of ceramics, which are crystalline and glassy in nature. These are used as different forms of optically transparent ceramic materials such as bulk solid state, coatings, thin films, and optical fibers. The transparent ceramics are obtained through a crystallization process from silica based glass and are used as optically transparent materials in various forms. The high-energy radiation detection, infrared domes, lasers, optical fibers, and armors industries are its major applications. They are commonly used in industries in North America, Europe, Asia-Pacific, and Rest of the World (ROW). They have superior mechanical and optical properties when compared to many other traditional materials.

Based on type, the market for polycrystalline transparent ceramics is expected to experience a massive growth responsible to the superior features provided such as, narrow output tolerance, long term reliability, high resistance to mechanical loads and environment friendliness. In addition factors such as the superior mechanical properties, ease of manufacturing, performance at high-temperature environments, and chemical durability will trigger the market.

Asia Pacific is one of the prominent regions for transparent ceramics market. The region is expected to witness incredible growth owing to high government spending on infrastructure sector and growing opportunities for foreign direct investment (FDI) in China and India. The region growth is driven by the demands from industrial, transportation, and commercial facilities. The aviation sector in particular from transportation sector will drive the market. The applications for transparent ceramics are spread widely in areas such as, helicopters & planes as sensors, armours, and ceramic guards. In addition, the increasing governmental support, especially in the aviation sector is an add-on.

Some of the key players in the transparent ceramics market are Philips, Bright crystals technology, II-VI Optical Systems, American Elements, Schott AG, CreamTec, Surmet Corporation, Ceranova, Cilas, Coorstek, General Electric, Saint-Gobain Ceramics & Plastics, Inc., Koito manufacturing, Konoshima chemical, Optocity, Advanced Ceramic Manufacturing, LLC, Blasch Precision Ceramics Inc., Morgan Advanced Materials PLC, IBD deisenroth engineering and Ceradyne Inc.

Materials Covered:

Yttrium Aluminum Garnet (YAG)

Spinel

Sapphire

Aluminum Oxynitride

Other Materials

Types Covered:

Polycrystalline Transparent Ceramics

Monocrystalline Transparent Ceramics

Other Transparent Ceramics

Applications Covered:

Domes & Windows

Transparent Armor

Other Applications

End Users Covered:

Optics And Optoelectronics

Aerospace, Defence and security

Mechanical/Chemical

Sensors And Instrumentation

Healthcare

Energy

Consumer Goods/Electronics

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country level segments

Market share analysis of the top industry players

Strategic recommendations for the new entrants

Market forecasts for a minimum of 9 years of all the mentioned segments, sub segments and the regional markets

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

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Note: The tables for North America, Europe, Asia Pacific, South America, Middle East & Africa are represented in the same manner as above.

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