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3D Printing Ceramics Market Size, Share & Trends Analysis Report By End Use (Medical, Aerospace, Industrial Machinery), By Region (North America, Europe, Asia Pacific), By Vendor Landscape, And Segment Forecasts, 2025 - 2030

https://marketpublishers.com/r/30BD1988377EEN.html
Date: February 2025
Pages: 90
Price: US$ 5,950.00 (Single User License)
ID: 30BD1988377EEN

Abstracts

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3D Printing Ceramics Market Growth & Trends
The global 3D printing ceramics market size is estimated t%li%reach USD 388.4 million by 2030, expanding at a CAGR of 25.7% from 2025 t%li%2030, according t%li%a new report by Grand View Research, Inc. Advancements in printing technology and increased investments are among drivers triggering the market growth.
Metal and plastic 3D printing companies have started focusing on products made of ceramics in the recent years. The market is projected t%li%grow at a rapid pace over the forecast period. Growing need for strong, tough, and temperature resistant components and parts in different end-use industries is the key driver triggering the growth of 3D printing ceramics industry.
Different printers that use materials such as porcelain, ceramics, alumina, and clay using various technologies are available in the market. Liquid deposition modeling (LDP) technology is anticipated t%li%create opportunities in the design and architecture fields. Digital light processing (DLP) and stereolithography (SLA) technologies can be used t%li%produce precise and complex parts for implants application in the medical field.
3D printing ceramics industry is still in the growing phase and faces some challenges. Lack of trained professionals & engineers and education programs for engineers related t%li%the field of 3D printing are among major challenges in the sector. However, the adoption of 3D printing by major manufacturers, providers, and end users of products

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made of ceramics is projected t%li%promote the technology.
Multinational companies and numerous startups are focusing on reduced execution time and enhanced operational efficiency in different end-user industries. Japan-based Canon Inc. developed a new 3D printing technology for ceramics in 2018. The technology can be used in various applications that require corrosion & heat resistance and insulation properties. The company als%li%developed new ceramic materials t%li%produce highly accurate parts.
Aerospace and medical industries are the key contributors t%li%the growth of the market. As per a report by Airbus, the expanding middle-class population is projected t%li%boost the number of flyers around the world, which, in turn, is anticipated t%li%trigger the production of commercial aircraft and indirectly contribute t%li%the demand for finished components or parts. Moreover, growing adult population and rising healthcare investments are likely t%li%promote the use of 3D printed finished products made of ceramics. Growth of medical and aerospace industries in North America is among key factors influencing the demand for 3D printing. Government funding for healthcare sector in Asia Pacific is projected t%li%assist the market growth. The region is projected t%li%witness the highest CAGR over the forecast period.
3D Printing Ceramics Market Report Highlights

In terms of revenue, the aerospace segment is expected t%li%grow at a CAGR of 25.8% over the forecast period, owing t%li%the demand for lightweight, heat-resistant, and durable materials.

The medical end use segment dominated the global 3D printing ceramics industry with the highest revenue share of 40.9% in 2024. This growth can be attributed t%li%the increasing demand for personalized healthcare solutions.

One major factor driving the demand for 3D-printed ceramics is the need for customization. There is a growing need for individualized medical solutions, including custom prosthetics, dental implants, and orthopedic devices in the healthcare sector

The North America 3D printing ceramics market dominated the global market and accounted for the largest revenue share of 45.5% in 2024, primarily driven by strong technological advancements and high adoption rates across industries

Tethon3D, 3D CERAM, Lithoz, Steinbach AG, PRODWAYS, and Desamanera

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S.r.l. are some of the key players in the market.

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CHAPTER 6. COMPETITIVE LANDSCAPE

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