

3D Printing Ceramic Market by Type (Technical Ceramic and Classic Ceramic), Form (Filament, Powder, and Liquid), and End-User Industry (Aerospace & Defense, Healthcare, Automotive, Electronics, and Others): Global Opportunity Analysis and Industry Forecast, 2020–2027

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Abstracts

The global 3D printing ceramic market was valued at \$98.7 million in 2019, and is projected to reach \$307.0 million by 2027, registering a CAGR of 15.2%. Ceramic used for 3D printing possess superior qualities compared to the standard 3D printing materials. Two types of ceramics are used for 3D printing, technical ceramics, including carbon and silica; and classic ceramics, including clay and porcelain. These ceramics can withstand temperatures up to 1,700° Celsius or 3,092° Fahrenheit and provide attractive colors such as turquoise, subtle shades, and oyster blue. 3D printing ceramics is utilized increasingly to print tableware and domestic decor for the food & beverages industry.

Increase in product improvement and surge in demand for 3D printing within dental applications are the main drivers of the 3D printing ceramic market. Lesser tendencies of hardness in ceramics in comparison to metals and plastics with low utility base, high value of 3D printing ceramics due to low consumption extent, and poor latest technology restrain the market growth. In addition, R&D investments by numerous end-user industries to maintain their position in the market provide lucrative opportunities for the growth of the 3D printing ceramic market.

Based on type, the market is bifurcated into technical ceramics and classic ceramics. By form, the market is segmented into filament, powder, and liquid. Based on the end-user

industry, the market is divided into aerospace & defense, healthcare, automotive, electronics, and others. Region-wise, the market is studied across North America, Europe, Asia-Pacific, and LAMEA. North America is expected to hold a dominant position in the global 3D printing ceramics market, owing to increase in usage of ceramics in varied end-use industries in the region. The Asia-Pacific 3D printing ceramics market is expected to grow at the fastest rate attributed to the increase in production activities in automotive, consumer goods, and electronics industries.

The key players operating in the global 3D printing ceramic market include 3D Ceram, Admatec, The Exone Company, Kwambio, Lithoz GmbH, Prodways Group, Voxeljet AG, Steinbach AG, Tethon 3D, and EnvisionTEC. To stay competitive, these market players adopt different strategies such as product launch, partnership, merger, and acquisition. For instance, Prodways launched its new Movinglight V10 Ceramic 3d Printer at the International Additive Material Exhibition 2018 in China. It allows printing of parts using technical ceramic materials such as zircon, alumina, and hydroxyapatite.

KEY BENEFITS FOR STAKEHOLDERS

Porter's five forces analysis helps analyze the potential of buyers & suppliers and the competitive scenario of the industry for building strategies.

It outlines the current trends and future estimations of the global 3D printing ceramic market size from 2019 to 2027 to understand the prevailing opportunities and potential investment pockets.

The key drivers, restraints, opportunities, and their detailed impact analyses are explained in the study.

The profiles of key players and their contribution to the global 3D printing ceramic market are enlisted in the report.

The global 3D printing ceramic market forecast is studied from 2019 to 2027.

KEY MARKET SEGMENTS

By Type

Technical Ceramic

Classic Ceramic

By Form

Filament

Powder

Liquid

By End-Use Industry

Aerospace & Defense

Healthcare

Automotive

Electronics

Others

By Regions

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

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