

3D Printing Materials Market by Type (Plastics, Metals, Ceramics, Other Types), Form (Filament, Powder, Liquid), Technology (FDM, SLA, SLS, DMLS, Other Technologies), Application (Prototyping, Manufacturing, Others), End-use Industry (Aerospace & Defense, Healthcare, Automotive, Consumer Goods, Other End-use Industry), & Region - Global Forecast to 2030

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Report description:

The 3D printing materials market is estimated at USD 3.88 billion in 2025 and is projected to reach USD 10.02 billion by 2030, at a CAGR of 20.9% from 2025 to 2030. The market for 3D printing materials is largely fueled by increased usage of additive manufacturing in industries including aerospace, automotive, healthcare, and consumer products, where customization, lightweighting, and quick prototyping are essential. Rising demand for high-performance materials such as metals, composites, and advanced polymers is making manufacturers capable of creating tough, complex components with less lead time and lower costs. Also, the transition toward on-demand and sustainable manufacturing, along with advances in material science that enhance strength, heat resistance, and biocompatibility, is driving market growth. Industry 4.0 and supply chain localization support from governments further bolsters demand.

<https://mnmimg.marketsandmarkets.com/Images/3d-printing-materials-market-overview.webp>

"Filament segment is projected to be the second-fastest-growing segment during the forecast period."

The filament segment of the 3D printing materials industry is exhibiting the highest-growing CAGR, based mainly on its handling ease, compatibility with commonly utilized FDM/FFF printers, and growing interest in low-cost printing solutions at the desktop

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level. Filament-based material printing streamlines the manufacturing process, allowing it to be made accessible for prototyping and small-scale production purposes in various industries such as dental, electronics, and research. Nonetheless, the unmet demand also fuels growth, leaving a supply gap and high market potential for new entrants and innovations.

"The healthcare segment is projected to register the second-highest growth rate during the forecast period."

The healthcare sector has the second-best CAGR in the 3D printing materials market because of the increasing use of biocompatible materials for dental restorations, bone implants, and surgical instruments. Materials such as zirconia and alumina are highly biocompatible, resistant to wear, and strong, and hence can be well-suited for tailor-made dental crowns and orthopedic implants. 3D printing allows for accurate, patient-specific designs that save surgery time and enhance outcomes. Further, as medicine evolves toward personalized care and minimally invasive treatments, the need for tailored, high-performance 3D printed parts is growing. Advances in the processes and materials used in ceramic printing technologies are accelerating adoption in dental and orthopedic applications.

"Europe is projected to register the third-highest growth rate in the 3D printing materials market during the forecast period."

Europe is projected to register the third-highest CAGR in the 3D printing materials market because of robust government backing of additive manufacturing, an established industrial foundation, and rising R&D spending in advanced materials. Germany, France, and Russia are leading the charge in 3D printing innovation, with specific emphasis in the aerospace, healthcare, and automotive industries, where there is a high demand for precision and material performance. The area is also underpinned by a strong base of universities and research institutes cooperating with industry leaders to create tomorrow's advanced material printing technologies. In addition, the EU's focus on digital manufacturing and sustainability drives the application of 3D printed materials for low-waste, efficient, and lightweight production.

This study has been validated through primary interviews with industry experts globally. The primary sources have been divided into the following three categories:

-□By Company Type: Tier 1 - 40%, Tier 2 - 33%, and Tier 3 - 27%

-□By Designation: C-level - 50%, Director-level - 30%, and Managers - 20%

-□By Region: North America - 15%, Europe - 50%, Asia Pacific - 20%, the Middle East & Africa - 10%, and Latin America - 5%

The report provides a comprehensive analysis of the following companies:

Prominent companies in this market include 3D Systems, Inc. (US), Stratasys (US), Arkema (France), Evonik Industries AG (Germany), GE Aerospace (US), Sintokogio, Ltd. (Japan), Syensqo (Belgium), Sandvik AB (Sweden), Hoganas AB (Sweden), Nano Dimension (US), Lithoz GmbH (Austria), CeramTec GmbH (Germany), Tethon 3D (US), and Nanoe (France).

Research Coverage

This research report categorizes the 3D printing materials market by type (plastics, metals, and ceramics), form (liquid, filament, and powder), technology (FDM, SLS, SLA, DMLS, and other technologies), application (prototyping, manufacturing, and other applications), end-use industry (aerospace & defense, healthcare, automotive, consumer goods, other end-use industries), and region (North America, Europe, Asia Pacific, the Middle East & Africa, and Latin America). The scope of the report includes detailed information about the major factors influencing the growth of the 3D printing materials market, such as drivers, restraints, challenges, and opportunities. A thorough examination of the key industry players has been conducted to provide insights into their business overview, solutions and services, key strategies, and recent developments in the 3D printing materials market. This report includes a competitive analysis of upcoming startups in the 3D printing materials market ecosystem.

Reasons to buy this report

The report will help market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall 3D printing materials market and the subsegments. It will also help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers,

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restraints, challenges, and opportunities.

The report provides insights on the following pointers:

- Analysis of key drivers (increasing research & development activities in 3D printing materials), restraints (lack of standard process control), opportunities (growing investments and funding in the market), and challenges (high cost and lack of scalability) are influencing the growth of the 3D printing materials market.

- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and product launches in the 3D printing materials market.

- Market Development: Comprehensive information about lucrative markets - the report analyses the 3D printing materials market across varied regions.

- Market Diversification: Exhaustive information about services, untapped geographies, recent developments, and investments in the 3D printing materials market.

- Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like 3D Systems, Inc. (US), Stratasys (US), Arkema (France), Evonik Industries AG (Germany), GE Aerospace (US), Sintokogio, Ltd. (Japan), Syensqo (Belgium), Sandvik AB (Sweden), Hoganas AB (Sweden), Nano Dimension (US), Lithoz GmbH (Austria), CeramTec GmbH (Germany), Tethon 3D (US), and Nanoe (France).

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