

## **Ceramic 3D Printing Market, Opportunity, Growth Drivers, Industry Trend Analysis and Forecast, 2024-2032**

Market Report | 2024-08-28 | 200 pages | Global Market Insights

### **AVAILABLE LICENSES:**

- Single User \$4850.00
- Multi User \$5350.00
- Enterprise User \$8350.00

### **Report description:**

The global Ceramic 3D Printing market reached a value of USD 61.7 million in 2023 and is projected to grow at a CAGR of 11.5% from 2024 to 2032. The aerospace and defense sector held a significant share of the market and is expected to continue leading throughout the forecast period. Ceramic 3D printing, which involves additive manufacturing using powder, resin, or filament forms, is gaining momentum due to the superior thermal properties of ceramics, which can withstand temperatures over 600C. This material also offers a broad color range, making it ideal for various applications where aesthetic requirements are important. As the latest innovation in 3D printing materials, ceramics are becoming increasingly preferred over metal and plastic.

The healthcare industry is expected to provide significant growth opportunities for ceramic 3D printing, particularly in dental applications such as crowns, bridges, and veneers. Advanced ceramic materials, such as zirconia, are gaining popularity due to their physical stability and ability to prevent issues like porcelain chipping. This development is opening up new avenues for ceramic 3D printing in dental restoration.

In terms of material form, the powder segment is expected to capture a market value of USD 189.8 million by 2032, growing at a CAGR of 12.2%. Powdered ceramics dominate the market, thanks to the development of new ceramic powders used in tooling and part manufacturing. These powders are cost-effective and easily recyclable, making them an attractive option for manufacturers. The introduction of technologies like MOVINGLight UV polymerization further expands the application of ceramic powders in industries such as medical and electronics.

Rapid prototyping held a significant market share in 2023 and is forecasted to grow at a CAGR of 15.5% from 2024 to 2032. This process enables manufacturers to develop and test new designs without the need for expensive tooling. The ability to produce parts with excellent surface finish and dimensional accuracy makes ceramic 3D printing ideal for applications in biomedical and casting molds.

Regionally, North America is expected to reach a market value of USD 183.8 million by 2032, driven by the integration of ceramic parts in aircraft engines and the development of new materials. The demand for lightweight designs and advanced stealth technologies will further drive growth in the region.

### **Table of Contents:**

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

## Report Content

### Chapter 1 Methodology & Scope

- 1.1 Market scope & definition
- 1.2 Base estimates & calculations
- 1.3 Forecast calculation
- 1.4 Data sources
  - 1.4.1 Primary
  - 1.4.2 Secondary
    - 1.4.2.1 Paid sources
    - 1.4.2.2 Public sources

### Chapter 2 Executive Summary

#### 2.1 Industry 360° synopsis

### Chapter 3 Industry Insights

#### 3.1 Industry ecosystem analysis

- 3.1.1 Key manufacturers
- 3.1.2 Distributors
- 3.1.3 Profit margins across the industry
- 3.2 Industry impact forces
  - 3.2.1 Growth drivers
    - 3.2.1.1 Advancements in 3D printing technology
    - 3.2.1.2 Increased demand for customized and complex designs
    - 3.2.1.3 Expanding applications in aerospace and medical industries
  - 3.2.2 Market challenges
    - 3.2.2.1 Limited material options and issues with scalability
  - 3.2.3 Market opportunity
    - 3.2.3.1 New opportunities
    - 3.2.3.2 Growth potential analysis

#### 3.3 Raw material landscape

- 3.3.1 Manufacturing trends
- 3.3.2 Technology evolution
  - 3.3.2.1 Sustainable manufacturing
    - 3.3.2.1.1 Green practices
    - 3.3.2.1.2 Decarbonization
- 3.3.3 Sustainability in raw materials
- 3.3.4 Pricing trends (USD/Kg), 2021 - 2032
  - 3.3.4.1 North America
  - 3.3.4.2 Europe
  - 3.3.4.3 Asia Pacific
  - 3.3.4.4 Latin America
  - 3.3.4.5 Middle East & Africa

#### 3.4 Regulations & market impact

#### 3.5 Porter's analysis

#### 3.6 PESTEL analysis

### Chapter 4 Competitive Landscape, 2023

- 4.1 Company market share analysis
- 4.2 Competitive positioning matrix
- 4.3 Strategic outlook matrix

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Chapter 5 Market Size and Forecast, By Form, 2021-2032 (USD Million, USD Kg)

5.1 Key trends

5.2 Powder

5.3 Resin

5.4 Filament

Chapter 6 Market Size and Forecast, By Application, 2021-2032 (USD Million, USD Kg)

6.1 Key trends

6.2 Rapid prototyping

6.3 Tooling

6.4 Part manufacturing

Chapter 7 Market Size and Forecast, By End-Use, 2021-2032 (USD Million, USD Kg)

7.1 Key trends

7.2 Healthcare

7.3 Aerospace & Defense

7.4 Automotive

7.5 others

Chapter 8 Market Size and Forecast, By Region, 2021-2032 (USD Million, USD Kg)

8.1 Key trends

8.2 North America

8.2.1 U.S.

8.2.2 Canada

8.3 Europe

8.3.1 Germany

8.3.2 UK

8.3.3 France

8.3.4 Italy

8.3.5 Spain

8.3.6 Rest of Europe

8.4 Asia Pacific

8.4.1 China

8.4.2 India

8.4.3 Japan

8.4.4 South Korea

8.4.5 Australia

8.4.6 Rest of Asia Pacific

8.5 Latin America

8.5.1 Brazil

8.5.2 Mexico

8.5.3 Argentina

8.5.4 Rest of Latin America

8.6 MEA

8.6.1 Saudi Arabia

8.6.2 UAE

8.6.3 South Africa

8.6.4 Rest of MEA

Chapter 9 Company Profiles

9.1 3D Ceram

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 9.2 Admatec
- 9.3 Emerging Objects
- 9.4 ExOne
- 9.5 Formlabs Inc
- 9.6 Lithoz
- 9.7 Prodways
- 9.8 Steinbach AG
- 9.9 Tethon 3D

**Ceramic 3D Printing Market, Opportunity, Growth Drivers, Industry Trend Analysis and Forecast, 2024-2032**

Market Report | 2024-08-28 | 200 pages | Global Market Insights

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

**ORDER FORM:**

Select license	License	Price
	Single User	\$4850.00
	Multi User	\$5350.00
	Enterprise User	\$8350.00
		VAT
		Total

\*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

\*\* VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-03"/>
		Signature	

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

