

3D Printing Ceramics Market by Type (Oxides, Non-oxides), Form (Filament, Powder, Liquid), End-use Industry (Aerospace & Defense, Healthcare, Automotive, Consumer Goods & Electronics, Other End-use Industry), and Region - Global Forecast to 2030

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Report description:

The 3D printing ceramics market is estimated at USD 0.32 billion in 2025 and is projected to reach USD 0.97 billion by 2030, at a CAGR of 25.0%. The main impetus for the expansion of the 3D printing ceramics market is the increasing need for high-performance, tailor-made ceramic parts across industries like aerospace, healthcare, and electronics industries that necessitate light, heat-resistant, and mechanically strong components. Additive manufacturing provides unparalleled design freedom and geometries that are hard or impossible to achieve with conventional ceramic manufacture. Parallel to this, advances in ceramic materials formulation, printing equipment (binder jetting, stereolithography, and extrusion), and digital process control have greatly enhanced efficiency, precision, and material performance. These aspects, combined with sustainability advantages resulting from decreased material waste and lower energy usage, are driving widespread application in industrial and commercial processes.

<https://www.marketsandmarkets.com/Images/3d-printing-ceramic-market-Overview.webp>

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

The filament segment of the 3D printing ceramics industry is exhibiting the highest CAGR, based mainly on its handling ease, compatibility with commonly utilized FDM/FFF printers, and growing interest in low-cost ceramic printing solutions at the desktop level. Filament-based ceramic 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 since there are virtually no manufacturers of high-quality ceramic filaments worldwide, leaving a supply gap and high market potential for new entrants and innovations.

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

The healthcare sector is estimated to exhibit the second-best CAGR in the 3D printing ceramics market because of the increasing use of biocompatible ceramic material for dental restorations, bone implants, and surgical instruments. Ceramic 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 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 ceramic 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 second-highest growth rate in the 3D printing ceramics market during the forecast period."

Europe is pegged to witness the second-highest CAGR in the 3D printing ceramics 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 ceramic 3D printing innovation, with specific emphasis in the aerospace, healthcare, and automotive industries, with 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 ceramic printing technologies. In addition, the EU's focus on digital manufacturing and sustainability drives the application of 3D printed ceramics 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 Sintokogio, Ltd. (Japan), Lithoz GmbH (Austria), SGL Carbon (France), CeramTec GmbH (Germany), Tethon 3D (US), Saint-Gobain (France), Nanoe (France), Jiangsu Sanzer New Materials Technology Co., Ltd. (China), and KYOCERA Corporation (Japan).

Research Coverage

This research report categorizes the 3D printing ceramics market by ceramic type (oxides, non-oxides), form (liquid, filament, powder), end-use industry (aerospace & defense, healthcare, automotive, consumer goods & electronics, 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 ceramics 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 ceramics market. This report includes a competitive analysis of upcoming startups in the 3D printing ceramics market ecosystem.

Reasons to buy this report

The report will help market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall 3D printing ceramics market and the subsegments. This report will 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, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

-□Analysis of key drivers (increasing research & development activities in 3D printing ceramics), restraints (availability of

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substitutes and high cost of 3D printing ceramics), opportunities (growing investments and fundings in the market), and challenges (low adoption and acceptance of 3D printing ceramics and high cost compared to substitute materials) are influencing the growth of the 3D printing ceramics market.

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

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

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

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like Sintokogio, Ltd. (Japan), Lithoz GmbH (Austria), SGL Carbon (France), CeramTec GmbH (Germany), Tethon 3D (US), Saint-Gobain (France), Nanoe (France), Jiangsu Sanzer New Materials Technology Co., Ltd. (China), and KYOCERA Corporation (Japan).

Table of Contents:

1	INTRODUCTION	27
1.1	STUDY OBJECTIVES	27
1.2	MARKET DEFINITION	27
1.2.1	INCLUSIONS AND EXCLUSIONS	28
1.3	MARKET SCOPE	29
1.3.1	MARKET S COVERED AND REGIONAL SCOPE	29
1.3.2	YEARS CONSIDERED	30
1.3.3	CURRENCY CONSIDERED	30
1.3.4	UNITS CONSIDERED	30
1.4	LIMITATIONS	31
1.5	STAKEHOLDERS	31
1.6	SUMMARY OF CHANGES	31
2	RESEARCH METHODOLOGY	32
2.1	RESEARCH DATA	32
2.1.1	SECONDARY DATA	33
2.1.1.1	Key data from secondary sources	33
2.1.2	PRIMARY DATA	34
2.1.2.1	Key data from primary sources	34
2.1.2.2	Interviews with top 3D printing ceramics manufacturers	34
2.1.2.3	Breakdown of primary interviews with experts	35
2.1.2.4	Key industry insights	35
2.2	BASE NUMBER CALCULATION	36
2.3	GROWTH FORECAST	37
2.3.1	SUPPLY SIDE	37
2.3.2	DEMAND SIDE	37
2.4	MARKET SIZE ESTIMATION	37
2.4.1	BOTTOM-UP APPROACH	37
2.4.2	TOP-DOWN APPROACH	38
2.5	DATA TRIANGULATION	38

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2.6	FACTOR ANALYSIS	40
2.7	RESEARCH ASSUMPTIONS	40
2.8	RESEARCH LIMITATIONS AND RISK ASSESSMENT	41
3	EXECUTIVE SUMMARY	42
4	PREMIUM INSIGHTS	45
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN 3D PRINTING CERAMICS MARKET	45
4.2	3D PRINTING CERAMICS MARKET BY END-USE INDUSTRY AND REGION	46
4.3	3D PRINTING CERAMICS MARKET, BY CERAMIC TYPE	46
4.4	3D PRINTING CERAMICS MARKET, BY FORM	47
4.5	3D PRINTING CERAMICS MARKET, BY END-USE INDUSTRY	47
4.6	3D PRINTING CERAMICS MARKET, BY KEY COUNTRY	48
5	MARKET OVERVIEW	49
5.1	INTRODUCTION	49
5.2	MARKET DYNAMICS	49
5.2.1	DRIVERS	50
5.2.1.1	Ongoing research & development	50
5.2.1.2	Increase in partnerships & collaboration among players in ecosystem	50
5.2.2	RESTRAINTS	50
5.2.2.1	High cost compared to other 3D printing materials	50
5.2.2.2	Economy of scale not achieved	50
5.2.3	OPPORTUNITIES	51
5.2.3.1	Increase in investments in 3D printing ceramics manufacturing	51
5.2.3.2	Development of advanced printers compatible with ceramics	51
5.2.4	CHALLENGES	51
5.2.4.1	Availability of substitutes	51
5.2.4.2	Capital-intensive production and complex manufacturing process	51
5.3	PORTER'S FIVE FORCES ANALYSIS	52
5.3.1	THREAT OF NEW ENTRANTS	53
5.3.2	THREAT OF SUBSTITUTES	53
5.3.3	BARGAINING POWER OF SUPPLIERS	53
5.3.4	BARGAINING POWER OF BUYERS	53
5.3.5	INTENSITY OF COMPETITIVE RIVALRY	54
5.4	KEY STAKEHOLDERS AND BUYING CRITERIA	54
5.4.1	KEY STAKEHOLDERS IN BUYING PROCESS	54
5.4.2	BUYING CRITERIA	55
5.5	ECOSYSTEM ANALYSIS	56
5.6	PRICING ANALYSIS	57
5.6.1	AVERAGE SELLING PRICE TREND OF KEY PLAYERS, BY END-USE INDUSTRY	57
5.6.2	AVERAGE SELLING PRICE TREND, BY CERAMIC TYPE	59
5.6.3	AVERAGE SELLING PRICE TREND, BY FORM	59
5.6.4	AVERAGE SELLING PRICE TREND, BY REGION	60
5.7	VALUE CHAIN ANALYSIS	60
5.8	TRADE ANALYSIS	61
5.8.1	EXPORT SCENARIO (HS CODE 69)	61
5.8.2	IMPORT SCENARIO (HS CODE 69)	62
5.9	TECHNOLOGY ANALYSIS	63
5.9.1	KEY TECHNOLOGIES	63

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5.9.1.1	Stereolithography	63
5.9.1.2	Binder jetting	63
5.9.2	COMPLEMENTARY TECHNOLOGIES	64
5.9.2.1	Fused filament fabrication (FFF)	64
5.10	IMPACT OF AI/GEN AI ON 3D PRINTING CERAMICS MARKET	64
5.10.1	TOP USE CASES AND MARKET POTENTIAL	64
5.10.2	CASE STUDIES OF AI IMPLEMENTATION IN 3D PRINTING CERAMICS MARKET	64
5.11	MACROECONOMIC OUTLOOK	65
5.11.1	INTRODUCTION	65
5.11.2	GDP TRENDS AND FORECAST	65
5.11.3	TRENDS IN GLOBAL AEROSPACE & DEFENSE INDUSTRY	66
5.11.4	TRENDS IN GLOBAL HEALTHCARE INDUSTRY	67
5.12	PATENT ANALYSIS	67
5.12.1	INTRODUCTION	67
5.12.2	METHODOLOGY	67
5.12.3	PATENT TYPES	67
5.12.4	INSIGHTS	68
5.12.5	LEGAL STATUS	69
5.12.6	JURISDICTION ANALYSIS	69
5.12.7	TOP APPLICANTS	70
5.13	REGULATORY LANDSCAPE	71
5.13.1	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	71
5.14	KEY CONFERENCES AND EVENTS, 2025-2026	74
5.15	CASE STUDY ANALYSIS	75
5.15.1	DENBY POTTERY AND UWE BRISTOL: TRANSFORMING TABLEWARE PROTOTYPING WITH 3D PRINTED CERAMICS	75
5.15.2	LITHOZ LITHABONE TCP 300 FOR PATIENT-SPECIFIC BONE IMPLANTS IN HEALTHCARE	75
5.15.3	3DCERAM'S CERIA AI-TRANSFORMING MEDICAL 3D PRINTED CERAMICS	76
5.16	TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS	77
5.17	INVESTMENT AND FUNDING SCENARIO	77
5.18	IMPACT OF 2025 US TARIFF ON 3D PRINTING CERAMICS MARKET	78
5.18.1	INTRODUCTION	78
5.18.2	KEY TARIFF RATES	79
5.18.3	PRICE IMPACT ANALYSIS	80
5.18.4	IMPACTS ON COUNTRY/REGION	81
5.18.4.1	US	81
5.18.4.2	Europe	82
5.18.4.3	Asia Pacific	84
5.18.5	IMPACT ON END-USE INDUSTRIES	86
?		
6	3D PRINTING CERAMICS MARKET, BY CERAMIC TYPE	87
6.1	INTRODUCTION	88
6.1.1	OXIDES	89
6.1.1.1	Growing demand from various end-use industries to drive market	89
6.1.1.2	Alumina	89
6.1.1.3	Zirconia	90
6.1.1.4	Other oxide types	90

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- 6.1.2 NON-OXIDES 93
 - 6.1.2.1 Advanced performance requirements to drive non-oxide ceramic demand in 3D printing 93
 - 6.1.2.2 Silicon carbide 93
 - 6.1.2.3 Silicon nitride 93
 - 6.1.2.4 Other non-oxide types 93
- 7 3D PRINTING CERAMICS MARKET, BY FORM 97
 - 7.1 INTRODUCTION 98
 - 7.1.1 FILAMENT 100
 - 7.1.1.1 Technological development in manufacturing of ceramic filament to drive market 100
 - 7.1.2 LIQUID 101
 - 7.1.2.1 Increased adoption of liquid-based ceramics for high-resolution applications 101
 - 7.1.3 POWDER 103
 - 7.1.3.1 Extensive industry backing and process simplicity to propel powder-based ceramic printing 103
- 8 3D PRINTING CERAMICS MARKET, BY END-USE INDUSTRY 105
 - 8.1 INTRODUCTION 106
 - 8.2 AEROSPACE & DEFENSE 108
 - 8.2.1 INCREASE IN USE IN MANUFACTURING COMPLEX COMPONENTS AND EQUIPMENT TO DRIVE MARKET 108
 - 8.3 HEALTHCARE 110
 - 8.3.1 ADVANCEMENTS IN BIOCOMPATIBLE CERAMICS TO FUEL GROWTH IN HEALTHCARE 3D PRINTING 110
 - 8.4 AUTOMOTIVE 112
 - 8.4.1 DEMAND FOR HIGH-PERFORMANCE COMPONENTS TO FUEL ADOPTION OF 3D PRINTING CERAMICS 112
 - 8.5 CONSUMER GOODS & ELECTRONICS 113
 - 8.5.1 HIGH DEMAND FOR MANUFACTURING COMPLEX DESIGNS IN CONSUMER GOODS & ELECTRONICS TO DRIVE MARKET 113
 - 8.6 OTHER END-USE INDUSTRIES 115
- 9 3D PRINTING CERAMICS MARKET, BY REGION 117
 - 9.1 INTRODUCTION 118
 - 9.2 NORTH AMERICA 120
 - 9.2.1 NORTH AMERICA: 3D PRINTING CERAMICS MARKET, BY CERAMIC TYPE 121
 - 9.2.2 NORTH AMERICA: 3D PRINTING CERAMICS MARKET, BY FORM 122
 - 9.2.3 NORTH AMERICA: 3D PRINTING CERAMICS MARKET, BY END-USE INDUSTRY 123
 - 9.2.4 NORTH AMERICA: 3D PRINTING CERAMICS MARKET, BY COUNTRY 124
 - 9.2.4.1 US 125
 - 9.2.4.1.1 Growing strategic partnerships to drive market 125
 - 9.2.4.2 Canada 127
 - 9.2.4.2.1 Adoption of 3D printing technology for consumer goods to support market growth 127
 - 9.3 EUROPE 129
 - 9.3.1 EUROPE: 3D PRINTING CERAMICS MARKET, BY CERAMIC TYPE 130
 - 9.3.2 EUROPE: 3D PRINTING CERAMICS MARKET, BY FORM 131
 - 9.3.3 EUROPE: 3D PRINTING CERAMICS MARKET, BY END-USE INDUSTRY 132
 - 9.3.4 EUROPE: 3D PRINTING CERAMICS MARKET, BY COUNTRY 133
 - 9.3.4.1 Germany 134
 - 9.3.4.1.1 Presence of 3D-printed ceramic manufacturers

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- to drive market[]134
- 9.3.4.2[]France[]136
 - 9.3.4.2.1[]Increase in demand from aerospace & defense industries to fuel market[]136
- 9.3.4.3[]UK[]138
 - 9.3.4.3.1[]Growth in research & development centers to propel market[]138
- 9.3.4.4[]Italy[]139
 - 9.3.4.4.1[]Adoption of 3D printing ceramics in various sectors to drive market[]139
- 9.3.4.5[]Rest of Europe[]141
- 9.4[]ASIA PACIFIC[]143
 - 9.4.1[]ASIA PACIFIC: 3D PRINTING CERAMICS MARKET, BY CERAMIC TYPE[]144
 - 9.4.2[]ASIA PACIFIC: 3D PRINTING CERAMICS MARKET, BY FORM[]145
 - 9.4.3[]ASIA PACIFIC: 3D PRINTING CERAMICS MARKET, BY END-USE INDUSTRY[]146
 - 9.4.4[]ASIA PACIFIC: 3D PRINTING CERAMICS MARKET, BY COUNTRY[]147
 - 9.4.4.1[]China[]148
 - 9.4.4.1.1[]Rapid industrialization and investments to propel market[]148
 - 9.4.4.2[]Japan[]150
 - 9.4.4.2.1[]Ongoing research collaborations to result in surge in demand[]150
 - 9.4.4.3[]South Korea[]152
 - 9.4.4.3.1[]Strategic collaborations among universities & manufacturers to drive market[]152
 - 9.4.4.4[]India[]153
 - 9.4.4.4.1[]Growing government initiatives and partnerships to support market growth[]153
 - 9.4.4.5[]Rest of Asia Pacific[]155
- 9.5[]MIDDLE EAST & AFRICA[]157
 - 9.5.1[]MIDDLE EAST & AFRICA: 3D PRINTING CERAMICS MARKET, BY CERAMIC TYPE[]157
 - 9.5.2[]MIDDLE EAST & AFRICA: 3D PRINTING CERAMICS MARKET, BY FORM[]158
 - 9.5.3[]MIDDLE EAST & AFRICA: 3D PRINTING CERAMICS MARKET, BY END-USE INDUSTRY[]159
 - 9.5.4[]MIDDLE EAST & AFRICA: 3D PRINTING CERAMICS MARKET, BY COUNTRY[]161
 - 9.5.4.1[]GCC Countries[]162
 - 9.5.4.1.1[]UAE[]162
 - 9.5.4.1.1.1[]High demand from end-use industries to propel growth[]162
 - 9.5.4.1.2[]Saudi Arabia[]164
 - 9.5.4.1.2.1[]Growing government initiatives toward technological innovation and industrial diversification to drive market[]164
 - 9.5.4.1.3[]Rest of GCC[]166
 - 9.5.4.2[]South Africa[]167
 - 9.5.4.2.1[]Growing adoption of 3D printing ceramics across various sectors to fuel market[]167
- 9.5.4.3[]Rest of Middle East & Africa[]169

- 9.6[]LATIN AMERICA[]171
- 9.6.1[]LATIN AMERICA: 3D PRINTING CERAMICS MARKET, BY CERAMIC TYPE[]171
- 9.6.2[]LATIN AMERICA: 3D PRINTING CERAMICS MARKET, BY FORM[]172
- 9.6.3[]LATIN AMERICA: 3D PRINTING CERAMICS MARKET, BY END-USE INDUSTRY[]173
- 9.6.4[]LATIN AMERICA: 3D PRINTING CERAMICS MARKET, BY COUNTRY[]174
 - 9.6.4.1[]Brazil[]176

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9.6.4.1.1	Economic improvements to propel market for 3D printing ceramics	176
9.6.4.2	Mexico	178
9.6.4.2.1	Increase in innovations to augment market growth	178
9.6.4.3	Rest of Latin America	179
10	COMPETITIVE LANDSCAPE	182
10.1	OVERVIEW	182
10.2	KEY PLAYER STRATEGIES/RIGHT TO WIN	182
10.3	REVENUE ANALYSIS, 2020-2024	184
10.4	MARKET SHARE ANALYSIS, 2024	185
10.5	BRAND/PRODUCT COMPARATIVE ANALYSIS	188
10.5.1	BRAND/PRODUCT COMPARATIVE ANALYSIS	188
10.6	COMPANY EVALUATION MATRIX: KEY PLAYERS, 2024	189
10.6.1	STARS	189
10.6.2	EMERGING LEADERS	189
10.6.3	PERVASIVE PLAYERS	190
10.6.4	PARTICIPANTS	190
10.6.5	COMPANY FOOTPRINT: KEY PLAYERS, 2024	191
10.7	COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2024	194
10.7.1	PROGRESSIVE COMPANIES	194
10.7.2	RESPONSIVE COMPANIES	194
10.7.3	DYNAMIC COMPANIES	194
10.7.4	STARTING BLOCKS	194
10.7.5	COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES, 2024	196
10.7.5.1	Detailed list of key startups/SMEs	196
10.7.5.2	Competitive benchmarking of key startups/SMEs	197
10.8	COMPANY VALUATION AND FINANCIAL METRICS OF 3D PRINTING CERAMICS VENDORS	198
10.9	COMPETITIVE SCENARIO	199
10.9.1	PRODUCT LAUNCHES	199
10.9.2	DEALS	200
10.9.3	EXPANSIONS	203
11	COMPANY PROFILES	204
11.1	KEY PLAYERS	204
11.1.1	SINTOKOGIO, LTD.	204
11.1.1.1	Business overview	204
11.1.1.2	Products offered	205
11.1.1.3	Recent developments	206
11.1.1.3.1	Deals	206
11.1.1.3.2	Expansions	206
11.1.1.3.3	Other developments	207
11.1.1.4	MnM view	207
11.1.1.4.1	Right to win	207
11.1.1.4.2	Strategic choices	207
11.1.1.4.3	Weaknesses and competitive threats	207
11.1.2	SGL CARBON	208
11.1.2.1	Business overview	208
11.1.2.2	Products offered	209
11.1.2.3	Recent developments	210

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- 11.1.2.3.1 Deals 210
- 11.1.2.4 MnM view 210
 - 11.1.2.4.1 Right to win 210
 - 11.1.2.4.2 Strategic choices 210
 - 11.1.2.4.3 Weaknesses and competitive threats 210
- 11.1.3 CERAMTEC GMBH 211
 - 11.1.3.1 Business overview 211
 - 11.1.3.2 Products offered 211
 - 11.1.3.3 Recent developments 213
 - 11.1.3.3.1 Deals 213
 - 11.1.3.3.2 Expansions 213
 - 11.1.3.4 MnM view 214
 - 11.1.3.4.1 Right to win 214
 - 11.1.3.4.2 Strategic choices 214
 - 11.1.3.4.3 Weaknesses and competitive threats 214
- 11.1.4 NANO E 215
 - 11.1.4.1 Business overview 215
 - 11.1.4.2 Products offered 215
 - 11.1.4.3 Recent developments 216
 - 11.1.4.3.1 Product launches 216
 - 11.1.4.3.2 Deals 216
 - 11.1.4.3.3 Expansions 217
 - 11.1.4.4 MnM view 217
 - 11.1.4.4.1 Right to win 217
 - 11.1.4.4.2 Strategic choices 217
 - 11.1.4.4.3 Weaknesses and competitive threats 218
- 11.1.5 SAINT-GOBAIN 219
 - 11.1.5.1 Business overview 219
 - 11.1.5.2 Products offered 220
 - 11.1.5.3 Recent developments 220
 - 11.1.5.3.1 Deals 220
 - 11.1.5.4 MnM view 221
 - 11.1.5.4.1 Right to win 221
 - 11.1.5.4.2 Strategic choices 221
 - 11.1.5.4.3 Weaknesses and competitive threats 221
- 11.1.6 CONCR3DE 222
 - 11.1.6.1 Business overview 222
 - 11.1.6.2 Products offered 222
 - 11.1.6.3 MnM view 223
 - 11.1.6.3.1 Right to win 223
 - 11.1.6.3.2 Strategic choices 223
 - 11.1.6.3.3 Weaknesses and competitive threats 223
- 11.1.7 JIANGSU SANZER NEW MATERIALS TECHNOLOGY CO., LTD. 224
 - 11.1.7.1 Business overview 224
 - 11.1.7.2 Products offered 224
 - 11.1.7.3 Recent developments 225
 - 11.1.7.3.1 Expansions 225

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- 11.1.7.4 MnM view 225
- 11.1.7.4.1 Right to win 225
- 11.1.7.4.2 Strategic choices 225
- 11.1.7.4.3 Weaknesses and competitive threats 225
- 11.1.8 LITHOZ GMBH 226
- 11.1.8.1 Business overview 226
- 11.1.8.2 Products offered 226
- 11.1.8.3 Recent developments 227
- 11.1.8.3.1 Product launches 227
- 11.1.8.3.2 Other developments 228
- 11.1.8.4 MnM view 228
- 11.1.8.4.1 Right to win 228
- 11.1.8.4.2 Strategic choices 228
- 11.1.8.4.3 Weaknesses and competitive threats 228
- 11.1.9 TETHON 3D 229
- 11.1.9.1 Business overview 229
- 11.1.9.2 Products offered 229
- 11.1.9.3 Recent developments 231
- 11.1.9.3.1 Product launches 231
- 11.1.9.3.2 Deals 231
- 11.1.9.3.3 Other developments 232
- 11.1.9.4 MnM view 233
- 11.1.9.4.1 Right to win 233
- 11.1.9.4.2 Strategic choices 233
- 11.1.9.4.3 Weaknesses and competitive threats 233
- 11.1.10 KYOCERA CORPORATION 234
- 11.1.10.1 Business overview 234
- 11.1.10.2 Products offered 235
- 11.1.10.3 Recent developments 236
- 11.1.10.3.1 Expansions 236
- 11.1.10.4 MnM view 237
- 11.1.10.4.1 Right to win 237
- 11.1.10.4.2 Strategic choices 237
- 11.1.10.4.3 Weaknesses and competitive threats 237
- 11.2 OTHER PLAYERS 238
- 11.2.1 STEINBACH AG 238
- 11.2.2 XJET 238
- 11.2.3 ZRAPID TECH 239
- 11.2.4 TRUNNANO 239
- 11.2.5 INTERNATIONAL SYALONS 240
- 11.2.6 FORMLABS 240
- 11.2.7 SCHUNK TECHNICAL CERAMICS 241
- 11.2.8 STANDARD NUCLEAR 241
- 11.2.9 SHENZHEN ADVENTURE TECHNOLOGY CO., LTD 242
- 11.2.10 SINTX TECHNOLOGIES, INC. 242
- 11.2.11 SPECTRUM FILAMENTS 243
- 11.2.12 CERAMARET 243

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- 11.2.13 ZHENGZHOU HAIXU ABRASIVES CO., LTD 244
- 11.2.14 NISHIMURA ADVANCED CERAMICS 244
- 11.2.15 WUNDER-MOLD, INC. 245
- 12 APPENDIX 246
- 12.1 DISCUSSION GUIDE 246
- 12.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL 249
- 12.3 CUSTOMIZATION OPTIONS 251
- 12.4 RELATED REPORTS 251
- 12.5 AUTHOR DETAILS 252

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