

Global Ti-doped Sapphire Crystal Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G698A27534BBEN.html>

Date: August 2026

Pages: 124

Price: US\$ 4,480.00 (Single User License)

ID: G698A27534BBEN

Abstracts

The global Ti-doped Sapphire Crystal market size is expected to reach \$ 57.42 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

Titanium-doped sapphire crystals?commonly known as Ti:Sapphire crystals?are laser gain media formed by doping high-purity aluminum oxide crystals with a specific proportion of titanium ions. Characterized by broad absorption bands, a wide tuning range, high gain, and excellent thermo-mechanical properties, they are primarily used in ultrafast lasers, tunable lasers, and high-peak-power laser systems.

The upstream sector primarily encompasses high-purity aluminum oxide, titanium dioxide, crystal growth equipment, crucibles, protective gases, and precision processing consumables. Downstream applications span fields such as scientific research lasers, semiconductor inspection, medical aesthetics, precision machining, spectroscopic analysis, national defense, and aerospace.

The global market features a unit price of approximately \$1,500 per piece, with sales volume around 23,000 units, an annual production capacity of about 34,000 units, and an industry profit margin of roughly 35%.

Future market trends for titanium-doped sapphire crystals will focus on larger sizes, superior optical uniformity, reduced defects, and consistent doping profiles. The expanding application of ultrafast lasers in semiconductor micromachining, precision manufacturing, biomedical imaging, scientific research, and high-field physics will continue to drive demand for high-quality crystals. Enterprises will prioritize enhancing crystal growth stability, controlling titanium ion valence states, improving absorption

uniformity and thermal management capabilities, and developing crystal boules, wafers, and custom-sized products. Meanwhile, trends toward laser miniaturization, higher power output, and domestic substitution will foster industry chain collaboration, while automated growth, in-line defect detection, and low-loss processing technologies will emerge as key areas of industrial competition.

This report studies the global Ti-doped Sapphire Crystal production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ti-doped Sapphire Crystal and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ti-doped Sapphire Crystal that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ti-doped Sapphire Crystal total production and demand, 2021-2032, (Units)

Global Ti-doped Sapphire Crystal total production value, 2021-2032, (USD Million)

Global Ti-doped Sapphire Crystal production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Ti-doped Sapphire Crystal consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Ti-doped Sapphire Crystal domestic production, consumption, key domestic manufacturers and share

Global Ti-doped Sapphire Crystal production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Ti-doped Sapphire Crystal production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Ti-doped Sapphire Crystal production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Ti-doped Sapphire Crystal market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Crystal Systems, Crytur, Shape Optics Technologies, SeongKyeongPhotonics, Crysmat Optics, Newlight Photonics, EKSMA Optics, Optogama, CASTECH, FOCtek Photonics, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ti-doped Sapphire Crystal market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Ti-doped Sapphire Crystal Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ti-doped Sapphire Crystal Market, Segmentation by Type:

Ti:Sapphire Crystal Boule

Ti:Sapphire Crystal Rod

Ti:Sapphire Crystal Plate

Ti:Sapphire Crystal Disc

Ti:Sapphire Crystal Window

Global Ti-doped Sapphire Crystal Market, Segmentation by Crystal Growth Method:

Czochralski-Grown Ti:Sapphire Crystal

Kyropoulos-Grown Ti:Sapphire Crystal

Heat Exchange Method-Grown Ti:Sapphire Crystal

Bridgman-Grown Ti:Sapphire Crystal

Gradient Freeze-Grown Ti:Sapphire Crystal

Global Ti-doped Sapphire Crystal Market, Segmentation by Crystal Orientation:

C-Axis Ti:Sapphire Crystal

A-Axis Ti:Sapphire Crystal

M-Axis Ti:Sapphire Crystal

Custom-Oriented Ti:Sapphire Crystal

Global Ti-doped Sapphire Crystal Market, Segmentation by Application:

Semiconductor Processing and Inspection

Biomedical Imaging

Precision Micromachining

Spectroscopy and Metrology

Aerospace and Defense

Medical and Aesthetic Equipment

Scientific Research

Companies Profiled:

Crystal Systems

Crytur

Shape Optics Technologies

SeongKyeongPhotonics

Crysmit Optics

Newlight Photonics

EKSMA Optics

Optogama

CASTECH

FOCtek Photonics

Crylink

SuriseTech

Olan

Key Questions Answered:

1. How big is the global Ti-doped Sapphire Crystal market?

2. What is the demand of the global Ti-doped Sapphire Crystal market?
3. What is the year over year growth of the global Ti-doped Sapphire Crystal market?
4. What is the production and production value of the global Ti-doped Sapphire Crystal market?
5. Who are the key producers in the global Ti-doped Sapphire Crystal market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Ti-doped Sapphire Crystal Introduction
- 1.2 World Ti-doped Sapphire Crystal Supply & Forecast
 - 1.2.1 World Ti-doped Sapphire Crystal Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Ti-doped Sapphire Crystal Production (2021-2032)
 - 1.2.3 World Ti-doped Sapphire Crystal Pricing Trends (2021-2032)
- 1.3 World Ti-doped Sapphire Crystal Production by Region (Based on Production Site)
 - 1.3.1 World Ti-doped Sapphire Crystal Production Value by Region (2021-2032)
 - 1.3.2 World Ti-doped Sapphire Crystal Production by Region (2021-2032)
 - 1.3.3 World Ti-doped Sapphire Crystal Average Price by Region (2021-2032)
 - 1.3.4 North America Ti-doped Sapphire Crystal Production (2021-2032)
 - 1.3.5 Europe Ti-doped Sapphire Crystal Production (2021-2032)
 - 1.3.6 China Ti-doped Sapphire Crystal Production (2021-2032)
 - 1.3.7 Japan Ti-doped Sapphire Crystal Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Ti-doped Sapphire Crystal Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Ti-doped Sapphire Crystal Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Ti-doped Sapphire Crystal Demand (2021-2032)
- 2.2 World Ti-doped Sapphire Crystal Consumption by Region
 - 2.2.1 World Ti-doped Sapphire Crystal Consumption by Region (2021-2026)
 - 2.2.2 World Ti-doped Sapphire Crystal Consumption Forecast by Region (2027-2032)
- 2.3 United States Ti-doped Sapphire Crystal Consumption (2021-2032)
- 2.4 China Ti-doped Sapphire Crystal Consumption (2021-2032)
- 2.5 Europe Ti-doped Sapphire Crystal Consumption (2021-2032)
- 2.6 Japan Ti-doped Sapphire Crystal Consumption (2021-2032)
- 2.7 South Korea Ti-doped Sapphire Crystal Consumption (2021-2032)
- 2.8 ASEAN Ti-doped Sapphire Crystal Consumption (2021-2032)
- 2.9 India Ti-doped Sapphire Crystal Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Ti-doped Sapphire Crystal Production Value by Manufacturer (2021-2026)

- 3.2 World Ti-doped Sapphire Crystal Production by Manufacturer (2021-2026)
- 3.3 World Ti-doped Sapphire Crystal Average Price by Manufacturer (2021-2026)
- 3.4 Ti-doped Sapphire Crystal Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Ti-doped Sapphire Crystal Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Ti-doped Sapphire Crystal in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Ti-doped Sapphire Crystal in 2025
- 3.6 Ti-doped Sapphire Crystal Market: Overall Company Footprint Analysis
 - 3.6.1 Ti-doped Sapphire Crystal Market: Region Footprint
 - 3.6.2 Ti-doped Sapphire Crystal Market: Company Product Type Footprint
 - 3.6.3 Ti-doped Sapphire Crystal Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Ti-doped Sapphire Crystal Production Value Comparison
 - 4.1.1 United States VS China: Ti-doped Sapphire Crystal Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Ti-doped Sapphire Crystal Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Ti-doped Sapphire Crystal Production Comparison
 - 4.2.1 United States VS China: Ti-doped Sapphire Crystal Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Ti-doped Sapphire Crystal Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Ti-doped Sapphire Crystal Consumption Comparison
 - 4.3.1 United States VS China: Ti-doped Sapphire Crystal Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Ti-doped Sapphire Crystal Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Ti-doped Sapphire Crystal Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Ti-doped Sapphire Crystal Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Ti-doped Sapphire Crystal Production Value (2021-2026)

4.4.3 United States Based Manufacturers Ti-doped Sapphire Crystal Production (2021-2026)

4.5 China Based Ti-doped Sapphire Crystal Manufacturers and Market Share

4.5.1 China Based Ti-doped Sapphire Crystal Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Ti-doped Sapphire Crystal Production Value (2021-2026)

4.5.3 China Based Manufacturers Ti-doped Sapphire Crystal Production (2021-2026)

4.6 Rest of World Based Ti-doped Sapphire Crystal Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Ti-doped Sapphire Crystal Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Ti-doped Sapphire Crystal Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Ti-doped Sapphire Crystal Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Ti-doped Sapphire Crystal Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Ti:Sapphire Crystal Boule

5.2.2 Ti:Sapphire Crystal Rod

5.2.3 Ti:Sapphire Crystal Plate

5.2.4 Ti:Sapphire Crystal Disc

5.2.5 Ti:Sapphire Crystal Window

5.3 Market Segment by Type

5.3.1 World Ti-doped Sapphire Crystal Production by Type (2021-2032)

5.3.2 World Ti-doped Sapphire Crystal Production Value by Type (2021-2032)

5.3.3 World Ti-doped Sapphire Crystal Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY CRYSTAL GROWTH METHOD

6.1 World Ti-doped Sapphire Crystal Market Size Overview by Crystal Growth Method: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Crystal Growth Method

- 6.2.1 Czochralski-Grown Ti:Sapphire Crystal
- 6.2.2 Kyropoulos-Grown Ti:Sapphire Crystal
- 6.2.3 Heat Exchange Method-Grown Ti:Sapphire Crystal
- 6.2.4 Bridgman-Grown Ti:Sapphire Crystal
- 6.2.5 Gradient Freeze-Grown Ti:Sapphire Crystal
- 6.3 Market Segment by Crystal Growth Method
 - 6.3.1 World Ti-doped Sapphire Crystal Production by Crystal Growth Method (2021-2032)
 - 6.3.2 World Ti-doped Sapphire Crystal Production Value by Crystal Growth Method (2021-2032)
 - 6.3.3 World Ti-doped Sapphire Crystal Average Price by Crystal Growth Method (2021-2032)

7 MARKET ANALYSIS BY CRYSTAL ORIENTATION

- 7.1 World Ti-doped Sapphire Crystal Market Size Overview by Crystal Orientation: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Crystal Orientation
 - 7.2.1 C-Axis Ti:Sapphire Crystal
 - 7.2.2 A-Axis Ti:Sapphire Crystal
 - 7.2.3 M-Axis Ti:Sapphire Crystal
 - 7.2.4 Custom-Oriented Ti:Sapphire Crystal
- 7.3 Market Segment by Crystal Orientation
 - 7.3.1 World Ti-doped Sapphire Crystal Production by Crystal Orientation (2021-2032)
 - 7.3.2 World Ti-doped Sapphire Crystal Production Value by Crystal Orientation (2021-2032)
 - 7.3.3 World Ti-doped Sapphire Crystal Average Price by Crystal Orientation (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Ti-doped Sapphire Crystal Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Semiconductor Processing and Inspection
 - 8.2.2 Biomedical Imaging
 - 8.2.3 Precision Micromachining
 - 8.2.4 Spectroscopy and Metrology
 - 8.2.5 Aerospace and Defense

8.2.6 Medical and Aesthetic Equipment

8.2.7 Scientific Research

8.3 Market Segment by Application

8.3.1 World Ti-doped Sapphire Crystal Production by Application (2021-2032)

8.3.2 World Ti-doped Sapphire Crystal Production Value by Application (2021-2032)

8.3.3 World Ti-doped Sapphire Crystal Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Crystal Systems

9.1.1 Crystal Systems Details

9.1.2 Crystal Systems Major Business

9.1.3 Crystal Systems Ti-doped Sapphire Crystal Product and Services

9.1.4 Crystal Systems Ti-doped Sapphire Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Crystal Systems Recent Developments/Updates

9.1.6 Crystal Systems Competitive Strengths & Weaknesses

9.2 Crytur

9.2.1 Crytur Details

9.2.2 Crytur Major Business

9.2.3 Crytur Ti-doped Sapphire Crystal Product and Services

9.2.4 Crytur Ti-doped Sapphire Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Crytur Recent Developments/Updates

9.2.6 Crytur Competitive Strengths & Weaknesses

9.3 Shape Optics Technologies

9.3.1 Shape Optics Technologies Details

9.3.2 Shape Optics Technologies Major Business

9.3.3 Shape Optics Technologies Ti-doped Sapphire Crystal Product and Services

9.3.4 Shape Optics Technologies Ti-doped Sapphire Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Shape Optics Technologies Recent Developments/Updates

9.3.6 Shape Optics Technologies Competitive Strengths & Weaknesses

9.4 SeongKyeongPhotonics

9.4.1 SeongKyeongPhotonics Details

9.4.2 SeongKyeongPhotonics Major Business

9.4.3 SeongKyeongPhotonics Ti-doped Sapphire Crystal Product and Services

9.4.4 SeongKyeongPhotonics Ti-doped Sapphire Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.4.5 SeongKyeongPhotonics Recent Developments/Updates
- 9.4.6 SeongKyeongPhotonics Competitive Strengths & Weaknesses
- 9.5 Crysmat Optics
 - 9.5.1 Crysmat Optics Details
 - 9.5.2 Crysmat Optics Major Business
 - 9.5.3 Crysmat Optics Ti-doped Sapphire Crystal Product and Services
 - 9.5.4 Crysmat Optics Ti-doped Sapphire Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Crysmat Optics Recent Developments/Updates
 - 9.5.6 Crysmat Optics Competitive Strengths & Weaknesses
- 9.6 Newlight Photonics
 - 9.6.1 Newlight Photonics Details
 - 9.6.2 Newlight Photonics Major Business
 - 9.6.3 Newlight Photonics Ti-doped Sapphire Crystal Product and Services
 - 9.6.4 Newlight Photonics Ti-doped Sapphire Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Newlight Photonics Recent Developments/Updates
 - 9.6.6 Newlight Photonics Competitive Strengths & Weaknesses
- 9.7 EKSMA Optics
 - 9.7.1 EKSMA Optics Details
 - 9.7.2 EKSMA Optics Major Business
 - 9.7.3 EKSMA Optics Ti-doped Sapphire Crystal Product and Services
 - 9.7.4 EKSMA Optics Ti-doped Sapphire Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 EKSMA Optics Recent Developments/Updates
 - 9.7.6 EKSMA Optics Competitive Strengths & Weaknesses
- 9.8 Optogama
 - 9.8.1 Optogama Details
 - 9.8.2 Optogama Major Business
 - 9.8.3 Optogama Ti-doped Sapphire Crystal Product and Services
 - 9.8.4 Optogama Ti-doped Sapphire Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Optogama Recent Developments/Updates
 - 9.8.6 Optogama Competitive Strengths & Weaknesses
- 9.9 CASTECH
 - 9.9.1 CASTECH Details
 - 9.9.2 CASTECH Major Business
 - 9.9.3 CASTECH Ti-doped Sapphire Crystal Product and Services
 - 9.9.4 CASTECH Ti-doped Sapphire Crystal Production, Price, Value, Gross Margin

and Market Share (2021-2026)

9.9.5 CASTECH Recent Developments/Updates

9.9.6 CASTECH Competitive Strengths & Weaknesses

9.10 FOCtek Photonics

9.10.1 FOCtek Photonics Details

9.10.2 FOCtek Photonics Major Business

9.10.3 FOCtek Photonics Ti-doped Sapphire Crystal Product and Services

9.10.4 FOCtek Photonics Ti-doped Sapphire Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 FOCtek Photonics Recent Developments/Updates

9.10.6 FOCtek Photonics Competitive Strengths & Weaknesses

9.11 Crylink

9.11.1 Crylink Details

9.11.2 Crylink Major Business

9.11.3 Crylink Ti-doped Sapphire Crystal Product and Services

9.11.4 Crylink Ti-doped Sapphire Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Crylink Recent Developments/Updates

9.11.6 Crylink Competitive Strengths & Weaknesses

9.12 SunriseTech

9.12.1 SunriseTech Details

9.12.2 SunriseTech Major Business

9.12.3 SunriseTech Ti-doped Sapphire Crystal Product and Services

9.12.4 SunriseTech Ti-doped Sapphire Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 SunriseTech Recent Developments/Updates

9.12.6 SunriseTech Competitive Strengths & Weaknesses

9.13 Olan

9.13.1 Olan Details

9.13.2 Olan Major Business

9.13.3 Olan Ti-doped Sapphire Crystal Product and Services

9.13.4 Olan Ti-doped Sapphire Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Olan Recent Developments/Updates

9.13.6 Olan Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Ti-doped Sapphire Crystal Industry Chain

10.2 Ti-doped Sapphire Crystal Upstream Analysis

10.2.1 Ti-doped Sapphire Crystal Core Raw Materials

10.2.2 Main Manufacturers of Ti-doped Sapphire Crystal Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Ti-doped Sapphire Crystal Production Mode

10.6 Ti-doped Sapphire Crystal Procurement Model

10.7 Ti-doped Sapphire Crystal Industry Sales Model and Sales Channels

10.7.1 Ti-doped Sapphire Crystal Sales Model

10.7.2 Ti-doped Sapphire Crystal Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Ti-doped Sapphire Crystal Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Ti-doped Sapphire Crystal Production Value by Region (2021-2026) & (USD Million)

Table 3. World Ti-doped Sapphire Crystal Production Value by Region (2027-2032) & (USD Million)

Table 4. World Ti-doped Sapphire Crystal Production Value Market Share by Region (2021-2026)

Table 5. World Ti-doped Sapphire Crystal Production Value Market Share by Region (2027-2032)

Table 6. World Ti-doped Sapphire Crystal Production by Region (2021-2026) & (Units)

Table 7. World Ti-doped Sapphire Crystal Production by Region (2027-2032) & (Units)

Table 8. World Ti-doped Sapphire Crystal Production Market Share by Region (2021-2026)

Table 9. World Ti-doped Sapphire Crystal Production Market Share by Region (2027-2032)

Table 10. World Ti-doped Sapphire Crystal Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Ti-doped Sapphire Crystal Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Ti-doped Sapphire Crystal Major Market Trends

Table 13. World Ti-doped Sapphire Crystal Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Ti-doped Sapphire Crystal Consumption by Region (2021-2026) & (Units)

Table 15. World Ti-doped Sapphire Crystal Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Ti-doped Sapphire Crystal Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Ti-doped Sapphire Crystal Producers in 2025

Table 18. World Ti-doped Sapphire Crystal Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Ti-doped Sapphire Crystal Producers in 2025

Table 20. World Ti-doped Sapphire Crystal Average Price by Manufacturer (2021-2026)

& (US\$/Unit)

Table 21. Global Ti-doped Sapphire Crystal Company Evaluation Quadrant

Table 22. World Ti-doped Sapphire Crystal Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Ti-doped Sapphire Crystal Production Site of Key Manufacturer

Table 24. Ti-doped Sapphire Crystal Market: Company Product Type Footprint

Table 25. Ti-doped Sapphire Crystal Market: Company Product Application Footprint

Table 26. Ti-doped Sapphire Crystal Competitive Factors

Table 27. Ti-doped Sapphire Crystal New Entrant and Capacity Expansion Plans

Table 28. Ti-doped Sapphire Crystal Mergers & Acquisitions Activity

Table 29. United States VS China Ti-doped Sapphire Crystal Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Ti-doped Sapphire Crystal Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Ti-doped Sapphire Crystal Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Ti-doped Sapphire Crystal Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Ti-doped Sapphire Crystal Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Ti-doped Sapphire Crystal Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Ti-doped Sapphire Crystal Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Ti-doped Sapphire Crystal Production Market Share (2021-2026)

Table 37. China Based Ti-doped Sapphire Crystal Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Ti-doped Sapphire Crystal Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Ti-doped Sapphire Crystal Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Ti-doped Sapphire Crystal Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Ti-doped Sapphire Crystal Production Market Share (2021-2026)

Table 42. Rest of World Based Ti-doped Sapphire Crystal Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Ti-doped Sapphire Crystal Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Ti-doped Sapphire Crystal Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Ti-doped Sapphire Crystal Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Ti-doped Sapphire Crystal Production Market Share (2021-2026)

Table 47. World Ti-doped Sapphire Crystal Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Ti-doped Sapphire Crystal Production by Type (2021-2026) & (Units)

Table 49. World Ti-doped Sapphire Crystal Production by Type (2027-2032) & (Units)

Table 50. World Ti-doped Sapphire Crystal Production Value by Type (2021-2026) & (USD Million)

Table 51. World Ti-doped Sapphire Crystal Production Value by Type (2027-2032) & (USD Million)

Table 52. World Ti-doped Sapphire Crystal Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Ti-doped Sapphire Crystal Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Ti-doped Sapphire Crystal Production Value by Crystal Growth Method, (USD Million), 2021 & 2025 & 2032

Table 55. World Ti-doped Sapphire Crystal Production by Crystal Growth Method (2021-2026) & (Units)

Table 56. World Ti-doped Sapphire Crystal Production by Crystal Growth Method (2027-2032) & (Units)

Table 57. World Ti-doped Sapphire Crystal Production Value by Crystal Growth Method (2021-2026) & (USD Million)

Table 58. World Ti-doped Sapphire Crystal Production Value by Crystal Growth Method (2027-2032) & (USD Million)

Table 59. World Ti-doped Sapphire Crystal Average Price by Crystal Growth Method (2021-2026) & (US\$/Unit)

Table 60. World Ti-doped Sapphire Crystal Average Price by Crystal Growth Method (2027-2032) & (US\$/Unit)

Table 61. World Ti-doped Sapphire Crystal Production Value by Crystal Orientation, (USD Million), 2021 & 2025 & 2032

Table 62. World Ti-doped Sapphire Crystal Production by Crystal Orientation (2021-2026) & (Units)

Table 63. World Ti-doped Sapphire Crystal Production by Crystal Orientation

(2027-2032) & (Units)

Table 64. World Ti-doped Sapphire Crystal Production Value by Crystal Orientation (2021-2026) & (USD Million)

Table 65. World Ti-doped Sapphire Crystal Production Value by Crystal Orientation (2027-2032) & (USD Million)

Table 66. World Ti-doped Sapphire Crystal Average Price by Crystal Orientation (2021-2026) & (US\$/Unit)

Table 67. World Ti-doped Sapphire Crystal Average Price by Crystal Orientation (2027-2032) & (US\$/Unit)

Table 68. World Ti-doped Sapphire Crystal Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Ti-doped Sapphire Crystal Production by Application (2021-2026) & (Units)

Table 70. World Ti-doped Sapphire Crystal Production by Application (2027-2032) & (Units)

Table 71. World Ti-doped Sapphire Crystal Production Value by Application (2021-2026) & (USD Million)

Table 72. World Ti-doped Sapphire Crystal Production Value by Application (2027-2032) & (USD Million)

Table 73. World Ti-doped Sapphire Crystal Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Ti-doped Sapphire Crystal Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Crystal Systems Basic Information, Manufacturing Base and Competitors

Table 76. Crystal Systems Major Business

Table 77. Crystal Systems Ti-doped Sapphire Crystal Product and Services

Table 78. Crystal Systems Ti-doped Sapphire Crystal Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Crystal Systems Recent Developments/Updates

Table 80. Crystal Systems Competitive Strengths & Weaknesses

Table 81. Crytur Basic Information, Manufacturing Base and Competitors

Table 82. Crytur Major Business

Table 83. Crytur Ti-doped Sapphire Crystal Product and Services

Table 84. Crytur Ti-doped Sapphire Crystal Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Crytur Recent Developments/Updates

Table 86. Crytur Competitive Strengths & Weaknesses

Table 87. Shape Optics Technologies Basic Information, Manufacturing Base and

Competitors

Table 88. Shape Optics Technologies Major Business

Table 89. Shape Optics Technologies Ti-doped Sapphire Crystal Product and Services

Table 90. Shape Optics Technologies Ti-doped Sapphire Crystal Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Shape Optics Technologies Recent Developments/Updates

Table 92. Shape Optics Technologies Competitive Strengths & Weaknesses

Table 93. SeongKyeongPhotonics Basic Information, Manufacturing Base and Competitors

Table 94. SeongKyeongPhotonics Major Business

Table 95. SeongKyeongPhotonics Ti-doped Sapphire Crystal Product and Services

Table 96. SeongKyeongPhotonics Ti-doped Sapphire Crystal Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. SeongKyeongPhotonics Recent Developments/Updates

Table 98. SeongKyeongPhotonics Competitive Strengths & Weaknesses

Table 99. Crysmat Optics Basic Information, Manufacturing Base and Competitors

Table 100. Crysmat Optics Major Business

Table 101. Crysmat Optics Ti-doped Sapphire Crystal Product and Services

Table 102. Crysmat Optics Ti-doped Sapphire Crystal Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Crysmat Optics Recent Developments/Updates

Table 104. Crysmat Optics Competitive Strengths & Weaknesses

Table 105. Newlight Photonics Basic Information, Manufacturing Base and Competitors

Table 106. Newlight Photonics Major Business

Table 107. Newlight Photonics Ti-doped Sapphire Crystal Product and Services

Table 108. Newlight Photonics Ti-doped Sapphire Crystal Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Newlight Photonics Recent Developments/Updates

Table 110. Newlight Photonics Competitive Strengths & Weaknesses

Table 111. EKSMA Optics Basic Information, Manufacturing Base and Competitors

Table 112. EKSMA Optics Major Business

Table 113. EKSMA Optics Ti-doped Sapphire Crystal Product and Services

Table 114. EKSMA Optics Ti-doped Sapphire Crystal Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. EKSMA Optics Recent Developments/Updates
Table 116. EKSMA Optics Competitive Strengths & Weaknesses
Table 117. Optogama Basic Information, Manufacturing Base and Competitors
Table 118. Optogama Major Business
Table 119. Optogama Ti-doped Sapphire Crystal Product and Services
Table 120. Optogama Ti-doped Sapphire Crystal Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Optogama Recent Developments/Updates
Table 122. Optogama Competitive Strengths & Weaknesses
Table 123. CASTECH Basic Information, Manufacturing Base and Competitors
Table 124. CASTECH Major Business
Table 125. CASTECH Ti-doped Sapphire Crystal Product and Services
Table 126. CASTECH Ti-doped Sapphire Crystal Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. CASTECH Recent Developments/Updates
Table 128. CASTECH Competitive Strengths & Weaknesses
Table 129. FOCtek Photonics Basic Information, Manufacturing Base and Competitors
Table 130. FOCtek Photonics Major Business
Table 131. FOCtek Photonics Ti-doped Sapphire Crystal Product and Services
Table 132. FOCtek Photonics Ti-doped Sapphire Crystal Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. FOCtek Photonics Recent Developments/Updates
Table 134. FOCtek Photonics Competitive Strengths & Weaknesses
Table 135. Crylink Basic Information, Manufacturing Base and Competitors
Table 136. Crylink Major Business
Table 137. Crylink Ti-doped Sapphire Crystal Product and Services
Table 138. Crylink Ti-doped Sapphire Crystal Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Crylink Recent Developments/Updates
Table 140. Crylink Competitive Strengths & Weaknesses
Table 141. SunriseTech Basic Information, Manufacturing Base and Competitors
Table 142. SunriseTech Major Business
Table 143. SunriseTech Ti-doped Sapphire Crystal Product and Services
Table 144. SunriseTech Ti-doped Sapphire Crystal Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. SunriseTech Recent Developments/Updates
Table 146. SunriseTech Competitive Strengths & Weaknesses
Table 147. Olan Basic Information, Manufacturing Base and Competitors

Table 148. Olan Major Business

Table 149. Olan Ti-doped Sapphire Crystal Product and Services

Table 150. Olan Ti-doped Sapphire Crystal Production (Units), Price (US\$/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Olan Recent Developments/Updates

Table 152. Olan Competitive Strengths & Weaknesses

Table 153. Global Key Players of Ti-doped Sapphire Crystal Upstream (Raw Materials)

Table 154. Global Ti-doped Sapphire Crystal Typical Customers

Table 155. Ti-doped Sapphire Crystal Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Ti-doped Sapphire Crystal Picture

Figure 2. World Ti-doped Sapphire Crystal Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Ti-doped Sapphire Crystal Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Ti-doped Sapphire Crystal Production (2021-2032) & (Units)

Figure 5. World Ti-doped Sapphire Crystal Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Ti-doped Sapphire Crystal Production Value Market Share by Region (2021-2032)

Figure 7. World Ti-doped Sapphire Crystal Production Market Share by Region (2021-2032)

Figure 8. North America Ti-doped Sapphire Crystal Production (2021-2032) & (Units)

Figure 9. Europe Ti-doped Sapphire Crystal Production (2021-2032) & (Units)

Figure 10. China Ti-doped Sapphire Crystal Production (2021-2032) & (Units)

Figure 11. Japan Ti-doped Sapphire Crystal Production (2021-2032) & (Units)

Figure 12. Ti-doped Sapphire Crystal Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Ti-doped Sapphire Crystal Consumption (2021-2032) & (Units)

Figure 15. World Ti-doped Sapphire Crystal Consumption Market Share by Region (2021-2032)

Figure 16. United States Ti-doped Sapphire Crystal Consumption (2021-2032) & (Units)

Figure 17. China Ti-doped Sapphire Crystal Consumption (2021-2032) & (Units)

Figure 18. Europe Ti-doped Sapphire Crystal Consumption (2021-2032) & (Units)

Figure 19. Japan Ti-doped Sapphire Crystal Consumption (2021-2032) & (Units)

Figure 20. South Korea Ti-doped Sapphire Crystal Consumption (2021-2032) & (Units)

Figure 21. ASEAN Ti-doped Sapphire Crystal Consumption (2021-2032) & (Units)

Figure 22. India Ti-doped Sapphire Crystal Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Ti-doped Sapphire Crystal by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Ti-doped Sapphire Crystal Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Ti-doped Sapphire Crystal Markets in 2025

Figure 26. United States VS China: Ti-doped Sapphire Crystal Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Ti-doped Sapphire Crystal Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Ti-doped Sapphire Crystal Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Ti-doped Sapphire Crystal Production Market Share 2025

Figure 30. China Based Manufacturers Ti-doped Sapphire Crystal Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Ti-doped Sapphire Crystal Production Market Share 2025

Figure 32. World Ti-doped Sapphire Crystal Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Ti-doped Sapphire Crystal Production Value Market Share by Type in 2025

Figure 34. Ti:Sapphire Crystal Boule

Figure 35. Ti:Sapphire Crystal Rod

Figure 36. Ti:Sapphire Crystal Plate

Figure 37. Ti:Sapphire Crystal Disc

Figure 38. Ti:Sapphire Crystal Window

Figure 39. World Ti-doped Sapphire Crystal Production Market Share by Type (2021-2032)

Figure 40. World Ti-doped Sapphire Crystal Production Value Market Share by Type (2021-2032)

Figure 41. World Ti-doped Sapphire Crystal Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Ti-doped Sapphire Crystal Production Value by Crystal Growth Method, (USD Million), 2021 & 2025 & 2032

Figure 43. World Ti-doped Sapphire Crystal Production Value Market Share by Crystal Growth Method in 2025

Figure 44. Czochralski-Grown Ti:Sapphire Crystal

Figure 45. Kyropoulos-Grown Ti:Sapphire Crystal

Figure 46. Heat Exchange Method-Grown Ti:Sapphire Crystal

Figure 47. Bridgman-Grown Ti:Sapphire Crystal

Figure 48. Gradient Freeze-Grown Ti:Sapphire Crystal

Figure 49. World Ti-doped Sapphire Crystal Production Market Share by Crystal Growth Method (2021-2032)

Figure 50. World Ti-doped Sapphire Crystal Production Value Market Share by Crystal Growth Method (2021-2032)

Figure 51. World Ti-doped Sapphire Crystal Average Price by Crystal Growth Method

(2021-2032) & (US\$/Unit)

Figure 52. World Ti-doped Sapphire Crystal Production Value by Crystal Orientation, (USD Million), 2021 & 2025 & 2032

Figure 53. World Ti-doped Sapphire Crystal Production Value Market Share by Crystal Orientation in 2025

Figure 54. C-Axis Ti:Sapphire Crystal

Figure 55. A-Axis Ti:Sapphire Crystal

Figure 56. M-Axis Ti:Sapphire Crystal

Figure 57. Custom-Oriented Ti:Sapphire Crystal

Figure 58. World Ti-doped Sapphire Crystal Production Market Share by Crystal Orientation (2021-2032)

Figure 59. World Ti-doped Sapphire Crystal Production Value Market Share by Crystal Orientation (2021-2032)

Figure 60. World Ti-doped Sapphire Crystal Average Price by Crystal Orientation (2021-2032) & (US\$/Unit)

Figure 61. World Ti-doped Sapphire Crystal Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 62. World Ti-doped Sapphire Crystal Production Value Market Share by Application in 2025

Figure 63. Semiconductor Processing and Inspection

Figure 64. Biomedical Imaging

Figure 65. Precision Micromachining

Figure 66. Spectroscopy and Metrology

Figure 67. Aerospace and Defense

Figure 68. Medical and Aesthetic Equipment

Figure 69. Scientific Research

Figure 70. World Ti-doped Sapphire Crystal Production Market Share by Application (2021-2032)

Figure 71. World Ti-doped Sapphire Crystal Production Value Market Share by Application (2021-2032)

Figure 72. World Ti-doped Sapphire Crystal Average Price by Application (2021-2032) & (US\$/Unit)

Figure 73. Ti-doped Sapphire Crystal Industry Chain

Figure 74. Ti-doped Sapphire Crystal Procurement Model

Figure 75. Ti-doped Sapphire Crystal Sales Model

Figure 76. Ti-doped Sapphire Crystal Sales Channels, Direct Sales, and Distribution

Figure 77. Methodology

Figure 78. Research Process and Data Source

I would like to order

Product name: Global Ti-doped Sapphire Crystal Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/G698A27534BBEN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G698A27534BBEN.html>