

Global Thulium-Doped Fiber Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thulium-Doped Fiber market size is expected to reach \$ million by 2032, rising at a market growth of %CAGR during the forecast period (2026-2032).

Thulium-doped fiber is a key gain medium for 2 μ m fiber-based light sources. Through energy-level transitions of Tm³⁺ ions, it enables laser generation and optical amplification in the near-infrared to short-wave/mid-infrared edge region, offering good water-absorption matching, eye-safe wavelength characteristics, high beam quality and strong potential for all-fiber integration. In 2025, global thulium-doped fiber sales is estimated at around 80,000 meters, with a average selling price of approximately USD 82 per meter. The thulium-doped fiber value chain consists of upstream high-purity silica or fluoride glass, thulium sources, co-dopants, preform fabrication, fiber drawing equipment and coating materials.

The market growth of thulium-doped fiber is driven by expanding 2 μ m light-source applications, medical laser substitution, gas sensing and mid-infrared research demand. The 2 μ m band is close to strong water absorption and has eye-safe wavelength characteristics, making it valuable for urological lithotripsy, soft-tissue surgery, transparent polymer welding, gas absorption spectroscopy, LiDAR and mid-infrared frequency conversion. At the same time, high-power thulium-doped fiber lasers and amplifiers require large-mode-area, double-clad, polarization-maintaining and low-photodarkening active fibers, supporting higher ASPs and more customization demand.

This report studies the global Thulium-Doped Fiber production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thulium-

Doped Fiber 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 Thulium-Doped Fiber that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thulium-Doped Fiber total production and demand, 2021-2032, (Meters)

Global Thulium-Doped Fiber total production value, 2021-2032, (USD Million)

Global Thulium-Doped Fiber production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Meters), (based on production site)

Global Thulium-Doped Fiber consumption by region & country, CAGR, 2021-2032 & (Meters)

U.S. VS China: Thulium-Doped Fiber domestic production, consumption, key domestic manufacturers and share

Global Thulium-Doped Fiber production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Meters)

Global Thulium-Doped Fiber production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Meters)

Global Thulium-Doped Fiber production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Meters)

This report profiles key players in the global Thulium-Doped Fiber 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 Coherent, nLIGHT, Exail, Lightera, Coractive, Changjin Photonics Technology, Shanghai Femtosecond Photonics Technology, 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 Thulium-Doped Fiber market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Meters) and average price (US\$/Meter) 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 Thulium-Doped Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thulium-Doped Fiber Market, Segmentation by Type:

Single Clad Fiber

Double Clad Fiber

Global Thulium-Doped Fiber Market, Segmentation by Host Glass:

Silica-based Thulium-doped Fiber

Fluoride-based Thulium-doped Fiber

Others

Global Thulium-Doped Fiber Market, Segmentation by Pumping Design:

Core-pumped Fiber

Cladding-pumped Fiber

In-band-pumped Fiber

Others

Global Thulium-Doped Fiber Market, Segmentation by Application:

Industrial

Medical

Scientific Research

Others

Companies Profiled:

Coherent

nLIGHT

Exail

Lightera

Coractive

Changjin Photonics Technology

Shanghai Femtosecond Photonics Technology

Key Questions Answered:

1. How big is the global Thulium-Doped Fiber market?

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Thulium-Doped Fiber Production Value by Manufacturer (2021-2026)

- 3.2 World Thulium-Doped Fiber Production by Manufacturer (2021-2026)
- 3.3 World Thulium-Doped Fiber Average Price by Manufacturer (2021-2026)
- 3.4 Thulium-Doped Fiber Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Thulium-Doped Fiber Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Thulium-Doped Fiber in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Thulium-Doped Fiber in 2025
- 3.6 Thulium-Doped Fiber Market: Overall Company Footprint Analysis
 - 3.6.1 Thulium-Doped Fiber Market: Region Footprint
 - 3.6.2 Thulium-Doped Fiber Market: Company Product Type Footprint
 - 3.6.3 Thulium-Doped Fiber 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: Thulium-Doped Fiber Production Value Comparison
 - 4.1.1 United States VS China: Thulium-Doped Fiber Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Thulium-Doped Fiber Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Thulium-Doped Fiber Production Comparison
 - 4.2.1 United States VS China: Thulium-Doped Fiber Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Thulium-Doped Fiber Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Thulium-Doped Fiber Consumption Comparison
 - 4.3.1 United States VS China: Thulium-Doped Fiber Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Thulium-Doped Fiber Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Thulium-Doped Fiber Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Thulium-Doped Fiber Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Thulium-Doped Fiber Production Value (2021-2026)

4.4.3 United States Based Manufacturers Thulium-Doped Fiber Production (2021-2026)

4.5 China Based Thulium-Doped Fiber Manufacturers and Market Share

4.5.1 China Based Thulium-Doped Fiber Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Thulium-Doped Fiber Production Value (2021-2026)

4.5.3 China Based Manufacturers Thulium-Doped Fiber Production (2021-2026)

4.6 Rest of World Based Thulium-Doped Fiber Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Thulium-Doped Fiber Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Thulium-Doped Fiber Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Thulium-Doped Fiber Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Thulium-Doped Fiber Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Single Clad Fiber

5.2.2 Double Clad Fiber

5.3 Market Segment by Type

5.3.1 World Thulium-Doped Fiber Production by Type (2021-2032)

5.3.2 World Thulium-Doped Fiber Production Value by Type (2021-2032)

5.3.3 World Thulium-Doped Fiber Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY HOST GLASS

6.1 World Thulium-Doped Fiber Market Size Overview by Host Glass: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Host Glass

6.2.1 Silica-based Thulium-doped Fiber

6.2.2 Fluoride-based Thulium-doped Fiber

6.2.3 Others

6.3 Market Segment by Host Glass

6.3.1 World Thulium-Doped Fiber Production by Host Glass (2021-2032)

6.3.2 World Thulium-Doped Fiber Production Value by Host Glass (2021-2032)

6.3.3 World Thulium-Doped Fiber Average Price by Host Glass (2021-2032)

7 MARKET ANALYSIS BY PUMPING DESIGN

7.1 World Thulium-Doped Fiber Market Size Overview by Pumping Design: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Pumping Design

7.2.1 Core-pumped Fiber

7.2.2 Cladding-pumped Fiber

7.2.3 In-band-pumped Fiber

7.2.4 Others

7.3 Market Segment by Pumping Design

7.3.1 World Thulium-Doped Fiber Production by Pumping Design (2021-2032)

7.3.2 World Thulium-Doped Fiber Production Value by Pumping Design (2021-2032)

7.3.3 World Thulium-Doped Fiber Average Price by Pumping Design (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Thulium-Doped Fiber Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Industrial

8.2.2 Medical

8.2.3 Scientific Research

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Thulium-Doped Fiber Production by Application (2021-2032)

8.3.2 World Thulium-Doped Fiber Production Value by Application (2021-2032)

8.3.3 World Thulium-Doped Fiber Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Coherent

9.1.1 Coherent Details

9.1.2 Coherent Major Business

9.1.3 Coherent Thulium-Doped Fiber Product and Services

9.1.4 Coherent Thulium-Doped Fiber Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.1.5 Coherent Recent Developments/Updates
- 9.1.6 Coherent Competitive Strengths & Weaknesses
- 9.2 nLIGHT
 - 9.2.1 nLIGHT Details
 - 9.2.2 nLIGHT Major Business
 - 9.2.3 nLIGHT Thulium-Doped Fiber Product and Services
 - 9.2.4 nLIGHT Thulium-Doped Fiber Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 nLIGHT Recent Developments/Updates
 - 9.2.6 nLIGHT Competitive Strengths & Weaknesses
- 9.3 Exail
 - 9.3.1 Exail Details
 - 9.3.2 Exail Major Business
 - 9.3.3 Exail Thulium-Doped Fiber Product and Services
 - 9.3.4 Exail Thulium-Doped Fiber Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Exail Recent Developments/Updates
 - 9.3.6 Exail Competitive Strengths & Weaknesses
- 9.4 Lightera
 - 9.4.1 Lightera Details
 - 9.4.2 Lightera Major Business
 - 9.4.3 Lightera Thulium-Doped Fiber Product and Services
 - 9.4.4 Lightera Thulium-Doped Fiber Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Lightera Recent Developments/Updates
 - 9.4.6 Lightera Competitive Strengths & Weaknesses
- 9.5 Coractive
 - 9.5.1 Coractive Details
 - 9.5.2 Coractive Major Business
 - 9.5.3 Coractive Thulium-Doped Fiber Product and Services
 - 9.5.4 Coractive Thulium-Doped Fiber Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Coractive Recent Developments/Updates
 - 9.5.6 Coractive Competitive Strengths & Weaknesses
- 9.6 Changjin Photonics Technology
 - 9.6.1 Changjin Photonics Technology Details
 - 9.6.2 Changjin Photonics Technology Major Business
 - 9.6.3 Changjin Photonics Technology Thulium-Doped Fiber Product and Services
 - 9.6.4 Changjin Photonics Technology Thulium-Doped Fiber Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.6.5 Changjin Photonics Technology Recent Developments/Updates

9.6.6 Changjin Photonics Technology Competitive Strengths & Weaknesses

9.7 Shanghai Femtosecond Photonics Technology

9.7.1 Shanghai Femtosecond Photonics Technology Details

9.7.2 Shanghai Femtosecond Photonics Technology Major Business

9.7.3 Shanghai Femtosecond Photonics Technology Thulium-Doped Fiber Product and Services

9.7.4 Shanghai Femtosecond Photonics Technology Thulium-Doped Fiber Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Shanghai Femtosecond Photonics Technology Recent Developments/Updates

9.7.6 Shanghai Femtosecond Photonics Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Thulium-Doped Fiber Industry Chain

10.2 Thulium-Doped Fiber Upstream Analysis

10.2.1 Thulium-Doped Fiber Core Raw Materials

10.2.2 Main Manufacturers of Thulium-Doped Fiber Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Thulium-Doped Fiber Production Mode

10.6 Thulium-Doped Fiber Procurement Model

10.7 Thulium-Doped Fiber Industry Sales Model and Sales Channels

10.7.1 Thulium-Doped Fiber Sales Model

10.7.2 Thulium-Doped Fiber 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 Thulium-Doped Fiber Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Thulium-Doped Fiber Production Value by Region (2021-2026) & (USD Million)

Table 3. World Thulium-Doped Fiber Production Value by Region (2027-2032) & (USD Million)

Table 4. World Thulium-Doped Fiber Production Value Market Share by Region (2021-2026)

Table 5. World Thulium-Doped Fiber Production Value Market Share by Region (2027-2032)

Table 6. World Thulium-Doped Fiber Production by Region (2021-2026) & (Meters)

Table 7. World Thulium-Doped Fiber Production by Region (2027-2032) & (Meters)

Table 8. World Thulium-Doped Fiber Production Market Share by Region (2021-2026)

Table 9. World Thulium-Doped Fiber Production Market Share by Region (2027-2032)

Table 10. World Thulium-Doped Fiber Average Price by Region (2021-2026) & (US\$/Meter)

Table 11. World Thulium-Doped Fiber Average Price by Region (2027-2032) & (US\$/Meter)

Table 12. Thulium-Doped Fiber Major Market Trends

Table 13. World Thulium-Doped Fiber Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Meters)

Table 14. World Thulium-Doped Fiber Consumption by Region (2021-2026) & (Meters)

Table 15. World Thulium-Doped Fiber Consumption Forecast by Region (2027-2032) & (Meters)

Table 16. World Thulium-Doped Fiber Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Thulium-Doped Fiber Producers in 2025

Table 18. World Thulium-Doped Fiber Production by Manufacturer (2021-2026) & (Meters)

Table 19. Production Market Share of Key Thulium-Doped Fiber Producers in 2025

Table 20. World Thulium-Doped Fiber Average Price by Manufacturer (2021-2026) & (US\$/Meter)

Table 21. Global Thulium-Doped Fiber Company Evaluation Quadrant

Table 22. World Thulium-Doped Fiber Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and Thulium-Doped Fiber Production Site of Key Manufacturer

Table 24. Thulium-Doped Fiber Market: Company Product Type Footprint

Table 25. Thulium-Doped Fiber Market: Company Product Application Footprint

Table 26. Thulium-Doped Fiber Competitive Factors

Table 27. Thulium-Doped Fiber New Entrant and Capacity Expansion Plans

Table 28. Thulium-Doped Fiber Mergers & Acquisitions Activity

Table 29. United States VS China Thulium-Doped Fiber Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Thulium-Doped Fiber Production Comparison, (2021 & 2025 & 2032) & (Meters)

Table 31. United States VS China Thulium-Doped Fiber Consumption Comparison, (2021 & 2025 & 2032) & (Meters)

Table 32. United States Based Thulium-Doped Fiber Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Thulium-Doped Fiber Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Thulium-Doped Fiber Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Thulium-Doped Fiber Production (2021-2026) & (Meters)

Table 36. United States Based Manufacturers Thulium-Doped Fiber Production Market Share (2021-2026)

Table 37. China Based Thulium-Doped Fiber Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Thulium-Doped Fiber Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Thulium-Doped Fiber Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Thulium-Doped Fiber Production, (2021-2026) & (Meters)

Table 41. China Based Manufacturers Thulium-Doped Fiber Production Market Share (2021-2026)

Table 42. Rest of World Based Thulium-Doped Fiber Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Thulium-Doped Fiber Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Thulium-Doped Fiber Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Thulium-Doped Fiber Production, (2021-2026) & (Meters)

Table 46. Rest of World Based Manufacturers Thulium-Doped Fiber Production Market Share (2021-2026)

Table 47. World Thulium-Doped Fiber Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Thulium-Doped Fiber Production by Type (2021-2026) & (Meters)

Table 49. World Thulium-Doped Fiber Production by Type (2027-2032) & (Meters)

Table 50. World Thulium-Doped Fiber Production Value by Type (2021-2026) & (USD Million)

Table 51. World Thulium-Doped Fiber Production Value by Type (2027-2032) & (USD Million)

Table 52. World Thulium-Doped Fiber Average Price by Type (2021-2026) & (US\$/Meter)

Table 53. World Thulium-Doped Fiber Average Price by Type (2027-2032) & (US\$/Meter)

Table 54. World Thulium-Doped Fiber Production Value by Host Glass, (USD Million), 2021 & 2025 & 2032

Table 55. World Thulium-Doped Fiber Production by Host Glass (2021-2026) & (Meters)

Table 56. World Thulium-Doped Fiber Production by Host Glass (2027-2032) & (Meters)

Table 57. World Thulium-Doped Fiber Production Value by Host Glass (2021-2026) & (USD Million)

Table 58. World Thulium-Doped Fiber Production Value by Host Glass (2027-2032) & (USD Million)

Table 59. World Thulium-Doped Fiber Average Price by Host Glass (2021-2026) & (US\$/Meter)

Table 60. World Thulium-Doped Fiber Average Price by Host Glass (2027-2032) & (US\$/Meter)

Table 61. World Thulium-Doped Fiber Production Value by Pumping Design, (USD Million), 2021 & 2025 & 2032

Table 62. World Thulium-Doped Fiber Production by Pumping Design (2021-2026) & (Meters)

Table 63. World Thulium-Doped Fiber Production by Pumping Design (2027-2032) & (Meters)

Table 64. World Thulium-Doped Fiber Production Value by Pumping Design (2021-2026) & (USD Million)

Table 65. World Thulium-Doped Fiber Production Value by Pumping Design (2027-2032) & (USD Million)

Table 66. World Thulium-Doped Fiber Average Price by Pumping Design (2021-2026) &

(US\$/Meter)

Table 67. World Thulium-Doped Fiber Average Price by Pumping Design (2027-2032) & (US\$/Meter)

Table 68. World Thulium-Doped Fiber Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Thulium-Doped Fiber Production by Application (2021-2026) & (Meters)

Table 70. World Thulium-Doped Fiber Production by Application (2027-2032) & (Meters)

Table 71. World Thulium-Doped Fiber Production Value by Application (2021-2026) & (USD Million)

Table 72. World Thulium-Doped Fiber Production Value by Application (2027-2032) & (USD Million)

Table 73. World Thulium-Doped Fiber Average Price by Application (2021-2026) & (US\$/Meter)

Table 74. World Thulium-Doped Fiber Average Price by Application (2027-2032) & (US\$/Meter)

Table 75. Coherent Basic Information, Manufacturing Base and Competitors

Table 76. Coherent Major Business

Table 77. Coherent Thulium-Doped Fiber Product and Services

Table 78. Coherent Thulium-Doped Fiber Production (Meters), Price (US\$/Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Coherent Recent Developments/Updates

Table 80. Coherent Competitive Strengths & Weaknesses

Table 81. nLIGHT Basic Information, Manufacturing Base and Competitors

Table 82. nLIGHT Major Business

Table 83. nLIGHT Thulium-Doped Fiber Product and Services

Table 84. nLIGHT Thulium-Doped Fiber Production (Meters), Price (US\$/Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. nLIGHT Recent Developments/Updates

Table 86. nLIGHT Competitive Strengths & Weaknesses

Table 87. Exail Basic Information, Manufacturing Base and Competitors

Table 88. Exail Major Business

Table 89. Exail Thulium-Doped Fiber Product and Services

Table 90. Exail Thulium-Doped Fiber Production (Meters), Price (US\$/Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Exail Recent Developments/Updates

Table 92. Exail Competitive Strengths & Weaknesses

Table 93. Lightera Basic Information, Manufacturing Base and Competitors

Table 94. Lightera Major Business

Table 95. Lightera Thulium-Doped Fiber Product and Services

Table 96. Lightera Thulium-Doped Fiber Production (Meters), Price (US\$/Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Lightera Recent Developments/Updates

Table 98. Lightera Competitive Strengths & Weaknesses

Table 99. Coractive Basic Information, Manufacturing Base and Competitors

Table 100. Coractive Major Business

Table 101. Coractive Thulium-Doped Fiber Product and Services

Table 102. Coractive Thulium-Doped Fiber Production (Meters), Price (US\$/Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Coractive Recent Developments/Updates

Table 104. Coractive Competitive Strengths & Weaknesses

Table 105. Changjin Photonics Technology Basic Information, Manufacturing Base and Competitors

Table 106. Changjin Photonics Technology Major Business

Table 107. Changjin Photonics Technology Thulium-Doped Fiber Product and Services

Table 108. Changjin Photonics Technology Thulium-Doped Fiber Production (Meters), Price (US\$/Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Changjin Photonics Technology Recent Developments/Updates

Table 110. Changjin Photonics Technology Competitive Strengths & Weaknesses

Table 111. Shanghai Femtosecond Photonics Technology Basic Information, Manufacturing Base and Competitors

Table 112. Shanghai Femtosecond Photonics Technology Major Business

Table 113. Shanghai Femtosecond Photonics Technology Thulium-Doped Fiber Product and Services

Table 114. Shanghai Femtosecond Photonics Technology Thulium-Doped Fiber Production (Meters), Price (US\$/Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Shanghai Femtosecond Photonics Technology Recent Developments/Updates

Table 116. Shanghai Femtosecond Photonics Technology Competitive Strengths & Weaknesses

Table 117. Global Key Players of Thulium-Doped Fiber Upstream (Raw Materials)

Table 118. Global Thulium-Doped Fiber Typical Customers

Table 119. Thulium-Doped Fiber Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Thulium-Doped Fiber Picture

Figure 2. World Thulium-Doped Fiber Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Thulium-Doped Fiber Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Thulium-Doped Fiber Production (2021-2032) & (Meters)

Figure 5. World Thulium-Doped Fiber Average Price (2021-2032) & (US\$/Meter)

Figure 6. World Thulium-Doped Fiber Production Value Market Share by Region (2021-2032)

Figure 7. World Thulium-Doped Fiber Production Market Share by Region (2021-2032)

Figure 8. North America Thulium-Doped Fiber Production (2021-2032) & (Meters)

Figure 9. Europe Thulium-Doped Fiber Production (2021-2032) & (Meters)

Figure 10. China Thulium-Doped Fiber Production (2021-2032) & (Meters)

Figure 11. Japan Thulium-Doped Fiber Production (2021-2032) & (Meters)

Figure 12. Thulium-Doped Fiber Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Thulium-Doped Fiber Consumption (2021-2032) & (Meters)

Figure 15. World Thulium-Doped Fiber Consumption Market Share by Region (2021-2032)

Figure 16. United States Thulium-Doped Fiber Consumption (2021-2032) & (Meters)

Figure 17. China Thulium-Doped Fiber Consumption (2021-2032) & (Meters)

Figure 18. Europe Thulium-Doped Fiber Consumption (2021-2032) & (Meters)

Figure 19. Japan Thulium-Doped Fiber Consumption (2021-2032) & (Meters)

Figure 20. South Korea Thulium-Doped Fiber Consumption (2021-2032) & (Meters)

Figure 21. ASEAN Thulium-Doped Fiber Consumption (2021-2032) & (Meters)

Figure 22. India Thulium-Doped Fiber Consumption (2021-2032) & (Meters)

Figure 23. Producer Shipments of Thulium-Doped Fiber by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Thulium-Doped Fiber Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Thulium-Doped Fiber Markets in 2025

Figure 26. United States VS China: Thulium-Doped Fiber Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Thulium-Doped Fiber Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Thulium-Doped Fiber Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Thulium-Doped Fiber Production Market Share 2025

Figure 30. China Based Manufacturers Thulium-Doped Fiber Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Thulium-Doped Fiber Production Market Share 2025

Figure 32. World Thulium-Doped Fiber Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Thulium-Doped Fiber Production Value Market Share by Type in 2025

Figure 34. Single Clad Fiber

Figure 35. Double Clad Fiber

Figure 36. World Thulium-Doped Fiber Production Market Share by Type (2021-2032)

Figure 37. World Thulium-Doped Fiber Production Value Market Share by Type (2021-2032)

Figure 38. World Thulium-Doped Fiber Average Price by Type (2021-2032) & (US\$/Meter)

Figure 39. World Thulium-Doped Fiber Production Value by Host Glass, (USD Million), 2021 & 2025 & 2032

Figure 40. World Thulium-Doped Fiber Production Value Market Share by Host Glass in 2025

Figure 41. Silica-based Thulium-doped Fiber

Figure 42. Fluoride-based Thulium-doped Fiber

Figure 43. Others

Figure 44. World Thulium-Doped Fiber Production Market Share by Host Glass (2021-2032)

Figure 45. World Thulium-Doped Fiber Production Value Market Share by Host Glass (2021-2032)

Figure 46. World Thulium-Doped Fiber Average Price by Host Glass (2021-2032) & (US\$/Meter)

Figure 47. World Thulium-Doped Fiber Production Value by Pumping Design, (USD Million), 2021 & 2025 & 2032

Figure 48. World Thulium-Doped Fiber Production Value Market Share by Pumping Design in 2025

Figure 49. Core-pumped Fiber

Figure 50. Cladding-pumped Fiber

Figure 51. In-band-pumped Fiber

Figure 52. Others

Figure 53. World Thulium-Doped Fiber Production Market Share by Pumping Design (2021-2032)

Figure 54. World Thulium-Doped Fiber Production Value Market Share by Pumping Design (2021-2032)

Figure 55. World Thulium-Doped Fiber Average Price by Pumping Design (2021-2032) & (US\$/Meter)

Figure 56. World Thulium-Doped Fiber Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Thulium-Doped Fiber Production Value Market Share by Application in 2025

Figure 58. Industrial

Figure 59. Medical

Figure 60. Scientific Research

Figure 61. Others

Figure 62. World Thulium-Doped Fiber Production Market Share by Application (2021-2032)

Figure 63. World Thulium-Doped Fiber Production Value Market Share by Application (2021-2032)

Figure 64. World Thulium-Doped Fiber Average Price by Application (2021-2032) & (US\$/Meter)

Figure 65. Thulium-Doped Fiber Industry Chain

Figure 66. Thulium-Doped Fiber Procurement Model

Figure 67. Thulium-Doped Fiber Sales Model

Figure 68. Thulium-Doped Fiber Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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