

Global Neodymium-Doped Double-Clad Fiber Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Neodymium-Doped Double-Clad Fiber market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Neodymium-doped double-clad fiber is a special fiber structure used in optical devices such as lasers and fiber amplifiers. It has a two-layer cladding structure, the central region of which is doped with neodymium plasma. The basic structure of Nd-doped double-clad fiber includes core, inner cladding and outer cladding. The core is a photoconductive region doped with neodymium ions, the active medium in the fiber that absorbs the energy of incident light and emits laser photons. The inner cladding is the first optical fiber layer outside the core, and its refractive index is slightly larger than that of the core, which plays a role in guiding light. The outer cladding is the second fiber layer outside the inner cladding with a lower refractive index to protect the inner cladding and core from the external environment. The main features of neodymium-doped double-clad fiber are high-power laser output and high-efficiency fiber amplification characteristics. By doping neodymium ions, the core region in the fiber can achieve efficient energy absorption and lasing emission, resulting in high-power lasing. At the same time, the double-clad structure can effectively control the transmission and coupling loss of light, improve the power carrying capacity of the fiber and the gain effect of the fiber amplifier. Neodymium-doped double-clad fibers are widely used in lasers, laser processing equipment, optical fiber amplifiers, medical equipment, scientific research and other fields. It plays an important role in the fields of industry and scientific research, and is used to realize high-power laser output and optical fiber signal amplification.

This report studies the global Neodymium-Doped Double-Clad Fiber production,

demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Neodymium-Doped Double-Clad Fiber, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Neodymium-Doped Double-Clad Fiber that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Neodymium-Doped Double-Clad Fiber total production and demand, 2018-2029, (K Meters)

Global Neodymium-Doped Double-Clad Fiber total production value, 2018-2029, (USD Million)

Global Neodymium-Doped Double-Clad Fiber production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Meters)

Global Neodymium-Doped Double-Clad Fiber consumption by region & country, CAGR, 2018-2029 & (K Meters)

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

Global Neodymium-Doped Double-Clad Fiber production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Meters)

Global Neodymium-Doped Double-Clad Fiber production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Meters)

Global Neodymium-Doped Double-Clad Fiber production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Meters).

This reports profiles key players in the global Neodymium-Doped Double-Clad 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 Coractive High-Tech Inc.,

Fibercore, Fujikura Ltd., iXBlue Photonics, ITF Technologies Inc., Le Verre Fluor?, LIEKKI Corporation, NKT Photonics and Nufern, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Neodymium-Doped Double-Clad Fiber market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Meters) and average price (US\$/K Metres) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Neodymium-Doped Double-Clad Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Neodymium-Doped Double-Clad Fiber Market, Segmentation by Type

Single Mode Neodymium Doped Double Clad Fiber

Multimode Neodymium-Doped Double-Clad Fiber

Global Neodymium-Doped Double-Clad Fiber Market, Segmentation by Application

Laser Processing

Optical Communication

Industrial Inspection

Others

Companies Profiled:

Coractive High-Tech Inc.

Fibercore

Fujikura Ltd.

iXBlue Photonics

ITF Technologies Inc.

Le Verre Fluor?

LIEKKI Corporation

NKT Photonics

Nufern

OFS Fitel

Photonics Industries International Inc.

PolarOnyx

QD Laser

Thorlabs

YOFC (Yangtze Optical Fiber and Cable)

Key Questions Answered

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

Contents

1 SUPPLY SUMMARY

- 1.1 Neodymium-Doped Double-Clad Fiber Introduction
- 1.2 World Neodymium-Doped Double-Clad Fiber Supply & Forecast
 - 1.2.1 World Neodymium-Doped Double-Clad Fiber Production Value (2018 & 2022 & 2029)
 - 1.2.2 World Neodymium-Doped Double-Clad Fiber Production (2018-2029)
 - 1.2.3 World Neodymium-Doped Double-Clad Fiber Pricing Trends (2018-2029)
- 1.3 World Neodymium-Doped Double-Clad Fiber Production by Region (Based on Production Site)
 - 1.3.1 World Neodymium-Doped Double-Clad Fiber Production Value by Region (2018-2029)
 - 1.3.2 World Neodymium-Doped Double-Clad Fiber Production by Region (2018-2029)
 - 1.3.3 World Neodymium-Doped Double-Clad Fiber Average Price by Region (2018-2029)
 - 1.3.4 North America Neodymium-Doped Double-Clad Fiber Production (2018-2029)
 - 1.3.5 Europe Neodymium-Doped Double-Clad Fiber Production (2018-2029)
 - 1.3.6 China Neodymium-Doped Double-Clad Fiber Production (2018-2029)
 - 1.3.7 Japan Neodymium-Doped Double-Clad Fiber Production (2018-2029)
 - 1.3.8 South Korea Neodymium-Doped Double-Clad Fiber Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Neodymium-Doped Double-Clad Fiber Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Neodymium-Doped Double-Clad Fiber Major Market Trends
- 1.5 Influence of COVID-19 and Russia-Ukraine War
 - 1.5.1 Influence of COVID-19
 - 1.5.2 Influence of Russia-Ukraine War

2 DEMAND SUMMARY

- 2.1 World Neodymium-Doped Double-Clad Fiber Demand (2018-2029)
- 2.2 World Neodymium-Doped Double-Clad Fiber Consumption by Region
 - 2.2.1 World Neodymium-Doped Double-Clad Fiber Consumption by Region (2018-2023)
 - 2.2.2 World Neodymium-Doped Double-Clad Fiber Consumption Forecast by Region (2024-2029)
- 2.3 United States Neodymium-Doped Double-Clad Fiber Consumption (2018-2029)

- 2.4 China Neodymium-Doped Double-Clad Fiber Consumption (2018-2029)
- 2.5 Europe Neodymium-Doped Double-Clad Fiber Consumption (2018-2029)
- 2.6 Japan Neodymium-Doped Double-Clad Fiber Consumption (2018-2029)
- 2.7 South Korea Neodymium-Doped Double-Clad Fiber Consumption (2018-2029)
- 2.8 ASEAN Neodymium-Doped Double-Clad Fiber Consumption (2018-2029)
- 2.9 India Neodymium-Doped Double-Clad Fiber Consumption (2018-2029)

3 WORLD NEODYMIUM-DOPED DOUBLE-CLAD FIBER MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Neodymium-Doped Double-Clad Fiber Production Value by Manufacturer (2018-2023)
- 3.2 World Neodymium-Doped Double-Clad Fiber Production by Manufacturer (2018-2023)
- 3.3 World Neodymium-Doped Double-Clad Fiber Average Price by Manufacturer (2018-2023)
- 3.4 Neodymium-Doped Double-Clad Fiber Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Neodymium-Doped Double-Clad Fiber Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Neodymium-Doped Double-Clad Fiber in 2022
 - 3.5.3 Global Concentration Ratios (CR8) for Neodymium-Doped Double-Clad Fiber in 2022
- 3.6 Neodymium-Doped Double-Clad Fiber Market: Overall Company Footprint Analysis
 - 3.6.1 Neodymium-Doped Double-Clad Fiber Market: Region Footprint
 - 3.6.2 Neodymium-Doped Double-Clad Fiber Market: Company Product Type Footprint
 - 3.6.3 Neodymium-Doped Double-Clad 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: Neodymium-Doped Double-Clad Fiber Production Value

Comparison

4.1.1 United States VS China: Neodymium-Doped Double-Clad Fiber Production Value Comparison (2018 & 2022 & 2029)

4.1.2 United States VS China: Neodymium-Doped Double-Clad Fiber Production Value Market Share Comparison (2018 & 2022 & 2029)

4.2 United States VS China: Neodymium-Doped Double-Clad Fiber Production Comparison

4.2.1 United States VS China: Neodymium-Doped Double-Clad Fiber Production Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: Neodymium-Doped Double-Clad Fiber Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: Neodymium-Doped Double-Clad Fiber Consumption Comparison

4.3.1 United States VS China: Neodymium-Doped Double-Clad Fiber Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: Neodymium-Doped Double-Clad Fiber Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based Neodymium-Doped Double-Clad Fiber Manufacturers and Market Share, 2018-2023

4.4.1 United States Based Neodymium-Doped Double-Clad Fiber Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Neodymium-Doped Double-Clad Fiber Production Value (2018-2023)

4.4.3 United States Based Manufacturers Neodymium-Doped Double-Clad Fiber Production (2018-2023)

4.5 China Based Neodymium-Doped Double-Clad Fiber Manufacturers and Market Share

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

4.5.2 China Based Manufacturers Neodymium-Doped Double-Clad Fiber Production Value (2018-2023)

4.5.3 China Based Manufacturers Neodymium-Doped Double-Clad Fiber Production (2018-2023)

4.6 Rest of World Based Neodymium-Doped Double-Clad Fiber Manufacturers and Market Share, 2018-2023

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

4.6.2 Rest of World Based Manufacturers Neodymium-Doped Double-Clad Fiber Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers Neodymium-Doped Double-Clad Fiber Production (2018-2023)

5 MARKET ANALYSIS BY TYPE

5.1 World Neodymium-Doped Double-Clad Fiber Market Size Overview by Type: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 Single Mode Neodymium Doped Double Clad Fiber

5.2.2 Multimode Neodymium-Doped Double-Clad Fiber

5.3 Market Segment by Type

5.3.1 World Neodymium-Doped Double-Clad Fiber Production by Type (2018-2029)

5.3.2 World Neodymium-Doped Double-Clad Fiber Production Value by Type (2018-2029)

5.3.3 World Neodymium-Doped Double-Clad Fiber Average Price by Type (2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Neodymium-Doped Double-Clad Fiber Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Laser Processing

6.2.2 Optical Communication

6.2.3 Industrial Inspection

6.2.4 Others

6.3 Market Segment by Application

6.3.1 World Neodymium-Doped Double-Clad Fiber Production by Application (2018-2029)

6.3.2 World Neodymium-Doped Double-Clad Fiber Production Value by Application (2018-2029)

6.3.3 World Neodymium-Doped Double-Clad Fiber Average Price by Application (2018-2029)

7 COMPANY PROFILES

7.1 Coractive High-Tech Inc.

7.1.1 Coractive High-Tech Inc. Details

7.1.2 Coractive High-Tech Inc. Major Business

7.1.3 Coractive High-Tech Inc. Neodymium-Doped Double-Clad Fiber Product and Services

7.1.4 Coractive High-Tech Inc. Neodymium-Doped Double-Clad Fiber Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 Coractive High-Tech Inc. Recent Developments/Updates

7.1.6 Coractive High-Tech Inc. Competitive Strengths & Weaknesses

7.2 Fibercore

7.2.1 Fibercore Details

7.2.2 Fibercore Major Business

7.2.3 Fibercore Neodymium-Doped Double-Clad Fiber Product and Services

7.2.4 Fibercore Neodymium-Doped Double-Clad Fiber Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 Fibercore Recent Developments/Updates

7.2.6 Fibercore Competitive Strengths & Weaknesses

7.3 Fujikura Ltd.

7.3.1 Fujikura Ltd. Details

7.3.2 Fujikura Ltd. Major Business

7.3.3 Fujikura Ltd. Neodymium-Doped Double-Clad Fiber Product and Services

7.3.4 Fujikura Ltd. Neodymium-Doped Double-Clad Fiber Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.3.5 Fujikura Ltd. Recent Developments/Updates

7.3.6 Fujikura Ltd. Competitive Strengths & Weaknesses

7.4 iXBlue Photonics

7.4.1 iXBlue Photonics Details

7.4.2 iXBlue Photonics Major Business

7.4.3 iXBlue Photonics Neodymium-Doped Double-Clad Fiber Product and Services

7.4.4 iXBlue Photonics Neodymium-Doped Double-Clad Fiber Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.4.5 iXBlue Photonics Recent Developments/Updates

7.4.6 iXBlue Photonics Competitive Strengths & Weaknesses

7.5 ITF Technologies Inc.

7.5.1 ITF Technologies Inc. Details

7.5.2 ITF Technologies Inc. Major Business

7.5.3 ITF Technologies Inc. Neodymium-Doped Double-Clad Fiber Product and Services

7.5.4 ITF Technologies Inc. Neodymium-Doped Double-Clad Fiber Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.5.5 ITF Technologies Inc. Recent Developments/Updates

7.5.6 ITF Technologies Inc. Competitive Strengths & Weaknesses

7.6 Le Verre Fluor?

7.6.1 Le Verre Fluor? Details

7.6.2 Le Verre Fluor? Major Business

7.6.3 Le Verre Fluor? Neodymium-Doped Double-Clad Fiber Product and Services

7.6.4 Le Verre Fluor? Neodymium-Doped Double-Clad Fiber Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.6.5 Le Verre Fluor? Recent Developments/Updates

7.6.6 Le Verre Fluor? Competitive Strengths & Weaknesses

7.7 LIEKKI Corporation

7.7.1 LIEKKI Corporation Details

7.7.2 LIEKKI Corporation Major Business

7.7.3 LIEKKI Corporation Neodymium-Doped Double-Clad Fiber Product and Services

7.7.4 LIEKKI Corporation Neodymium-Doped Double-Clad Fiber Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.7.5 LIEKKI Corporation Recent Developments/Updates

7.7.6 LIEKKI Corporation Competitive Strengths & Weaknesses

7.8 NKT Photonics

7.8.1 NKT Photonics Details

7.8.2 NKT Photonics Major Business

7.8.3 NKT Photonics Neodymium-Doped Double-Clad Fiber Product and Services

7.8.4 NKT Photonics Neodymium-Doped Double-Clad Fiber Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.8.5 NKT Photonics Recent Developments/Updates

7.8.6 NKT Photonics Competitive Strengths & Weaknesses

7.9 Nufern

7.9.1 Nufern Details

7.9.2 Nufern Major Business

7.9.3 Nufern Neodymium-Doped Double-Clad Fiber Product and Services

7.9.4 Nufern Neodymium-Doped Double-Clad Fiber Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.9.5 Nufern Recent Developments/Updates

7.9.6 Nufern Competitive Strengths & Weaknesses

7.10 OFS Fitel

7.10.1 OFS Fitel Details

7.10.2 OFS Fitel Major Business

7.10.3 OFS Fitel Neodymium-Doped Double-Clad Fiber Product and Services

7.10.4 OFS Fitel Neodymium-Doped Double-Clad Fiber Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.10.5 OFS Fitel Recent Developments/Updates

- 7.10.6 OFS Fitel Competitive Strengths & Weaknesses
- 7.11 Photonics Industries International Inc.
 - 7.11.1 Photonics Industries International Inc. Details
 - 7.11.2 Photonics Industries International Inc. Major Business
 - 7.11.3 Photonics Industries International Inc. Neodymium-Doped Double-Clad Fiber Product and Services
 - 7.11.4 Photonics Industries International Inc. Neodymium-Doped Double-Clad Fiber Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.11.5 Photonics Industries International Inc. Recent Developments/Updates
 - 7.11.6 Photonics Industries International Inc. Competitive Strengths & Weaknesses
- 7.12 PolarOnyx
 - 7.12.1 PolarOnyx Details
 - 7.12.2 PolarOnyx Major Business
 - 7.12.3 PolarOnyx Neodymium-Doped Double-Clad Fiber Product and Services
 - 7.12.4 PolarOnyx Neodymium-Doped Double-Clad Fiber Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.12.5 PolarOnyx Recent Developments/Updates
 - 7.12.6 PolarOnyx Competitive Strengths & Weaknesses
- 7.13 QD Laser
 - 7.13.1 QD Laser Details
 - 7.13.2 QD Laser Major Business
 - 7.13.3 QD Laser Neodymium-Doped Double-Clad Fiber Product and Services
 - 7.13.4 QD Laser Neodymium-Doped Double-Clad Fiber Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.13.5 QD Laser Recent Developments/Updates
 - 7.13.6 QD Laser Competitive Strengths & Weaknesses
- 7.14 Thorlabs
 - 7.14.1 Thorlabs Details
 - 7.14.2 Thorlabs Major Business
 - 7.14.3 Thorlabs Neodymium-Doped Double-Clad Fiber Product and Services
 - 7.14.4 Thorlabs Neodymium-Doped Double-Clad Fiber Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.14.5 Thorlabs Recent Developments/Updates
 - 7.14.6 Thorlabs Competitive Strengths & Weaknesses
- 7.15 YOFC (Yangtze Optical Fiber and Cable)
 - 7.15.1 YOFC (Yangtze Optical Fiber and Cable) Details
 - 7.15.2 YOFC (Yangtze Optical Fiber and Cable) Major Business
 - 7.15.3 YOFC (Yangtze Optical Fiber and Cable) Neodymium-Doped Double-Clad Fiber Product and Services

7.15.4 YOFC (Yangtze Optical Fiber and Cable) Neodymium-Doped Double-Clad Fiber Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.15.5 YOFC (Yangtze Optical Fiber and Cable) Recent Developments/Updates

7.15.6 YOFC (Yangtze Optical Fiber and Cable) Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

8.1 Neodymium-Doped Double-Clad Fiber Industry Chain

8.2 Neodymium-Doped Double-Clad Fiber Upstream Analysis

8.2.1 Neodymium-Doped Double-Clad Fiber Core Raw Materials

8.2.2 Main Manufacturers of Neodymium-Doped Double-Clad Fiber Core Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 Neodymium-Doped Double-Clad Fiber Production Mode

8.6 Neodymium-Doped Double-Clad Fiber Procurement Model

8.7 Neodymium-Doped Double-Clad Fiber Industry Sales Model and Sales Channels

8.7.1 Neodymium-Doped Double-Clad Fiber Sales Model

8.7.2 Neodymium-Doped Double-Clad Fiber Typical Customers

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Neodymium-Doped Double-Clad Fiber Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World Neodymium-Doped Double-Clad Fiber Production Value by Region (2018-2023) & (USD Million)

Table 3. World Neodymium-Doped Double-Clad Fiber Production Value by Region (2024-2029) & (USD Million)

Table 4. World Neodymium-Doped Double-Clad Fiber Production Value Market Share by Region (2018-2023)

Table 5. World Neodymium-Doped Double-Clad Fiber Production Value Market Share by Region (2024-2029)

Table 6. World Neodymium-Doped Double-Clad Fiber Production by Region (2018-2023) & (K Meters)

Table 7. World Neodymium-Doped Double-Clad Fiber Production by Region (2024-2029) & (K Meters)

Table 8. World Neodymium-Doped Double-Clad Fiber Production Market Share by Region (2018-2023)

Table 9. World Neodymium-Doped Double-Clad Fiber Production Market Share by Region (2024-2029)

Table 10. World Neodymium-Doped Double-Clad Fiber Average Price by Region (2018-2023) & (US\$/K Metres)

Table 11. World Neodymium-Doped Double-Clad Fiber Average Price by Region (2024-2029) & (US\$/K Metres)

Table 12. Neodymium-Doped Double-Clad Fiber Major Market Trends

Table 13. World Neodymium-Doped Double-Clad Fiber Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (K Meters)

Table 14. World Neodymium-Doped Double-Clad Fiber Consumption by Region (2018-2023) & (K Meters)

Table 15. World Neodymium-Doped Double-Clad Fiber Consumption Forecast by Region (2024-2029) & (K Meters)

Table 16. World Neodymium-Doped Double-Clad Fiber Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key Neodymium-Doped Double-Clad Fiber Producers in 2022

Table 18. World Neodymium-Doped Double-Clad Fiber Production by Manufacturer (2018-2023) & (K Meters)

Table 19. Production Market Share of Key Neodymium-Doped Double-Clad Fiber Producers in 2022

Table 20. World Neodymium-Doped Double-Clad Fiber Average Price by Manufacturer (2018-2023) & (US\$/K Metres)

Table 21. Global Neodymium-Doped Double-Clad Fiber Company Evaluation Quadrant

Table 22. World Neodymium-Doped Double-Clad Fiber Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and Neodymium-Doped Double-Clad Fiber Production Site of Key Manufacturer

Table 24. Neodymium-Doped Double-Clad Fiber Market: Company Product Type Footprint

Table 25. Neodymium-Doped Double-Clad Fiber Market: Company Product Application Footprint

Table 26. Neodymium-Doped Double-Clad Fiber Competitive Factors

Table 27. Neodymium-Doped Double-Clad Fiber New Entrant and Capacity Expansion Plans

Table 28. Neodymium-Doped Double-Clad Fiber Mergers & Acquisitions Activity

Table 29. United States VS China Neodymium-Doped Double-Clad Fiber Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China Neodymium-Doped Double-Clad Fiber Production Comparison, (2018 & 2022 & 2029) & (K Meters)

Table 31. United States VS China Neodymium-Doped Double-Clad Fiber Consumption Comparison, (2018 & 2022 & 2029) & (K Meters)

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

Table 33. United States Based Manufacturers Neodymium-Doped Double-Clad Fiber Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers Neodymium-Doped Double-Clad Fiber Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers Neodymium-Doped Double-Clad Fiber Production (2018-2023) & (K Meters)

Table 36. United States Based Manufacturers Neodymium-Doped Double-Clad Fiber Production Market Share (2018-2023)

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

Table 38. China Based Manufacturers Neodymium-Doped Double-Clad Fiber Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers Neodymium-Doped Double-Clad Fiber Production Value Market Share (2018-2023)

- Table 40. China Based Manufacturers Neodymium-Doped Double-Clad Fiber Production (2018-2023) & (K Meters)
- Table 41. China Based Manufacturers Neodymium-Doped Double-Clad Fiber Production Market Share (2018-2023)
- Table 42. Rest of World Based Neodymium-Doped Double-Clad Fiber Manufacturers, Headquarters and Production Site (States, Country)
- Table 43. Rest of World Based Manufacturers Neodymium-Doped Double-Clad Fiber Production Value, (2018-2023) & (USD Million)
- Table 44. Rest of World Based Manufacturers Neodymium-Doped Double-Clad Fiber Production Value Market Share (2018-2023)
- Table 45. Rest of World Based Manufacturers Neodymium-Doped Double-Clad Fiber Production (2018-2023) & (K Meters)
- Table 46. Rest of World Based Manufacturers Neodymium-Doped Double-Clad Fiber Production Market Share (2018-2023)
- Table 47. World Neodymium-Doped Double-Clad Fiber Production Value by Type, (USD Million), 2018 & 2022 & 2029
- Table 48. World Neodymium-Doped Double-Clad Fiber Production by Type (2018-2023) & (K Meters)
- Table 49. World Neodymium-Doped Double-Clad Fiber Production by Type (2024-2029) & (K Meters)
- Table 50. World Neodymium-Doped Double-Clad Fiber Production Value by Type (2018-2023) & (USD Million)
- Table 51. World Neodymium-Doped Double-Clad Fiber Production Value by Type (2024-2029) & (USD Million)
- Table 52. World Neodymium-Doped Double-Clad Fiber Average Price by Type (2018-2023) & (US\$/K Metres)
- Table 53. World Neodymium-Doped Double-Clad Fiber Average Price by Type (2024-2029) & (US\$/K Metres)
- Table 54. World Neodymium-Doped Double-Clad Fiber Production Value by Application, (USD Million), 2018 & 2022 & 2029
- Table 55. World Neodymium-Doped Double-Clad Fiber Production by Application (2018-2023) & (K Meters)
- Table 56. World Neodymium-Doped Double-Clad Fiber Production by Application (2024-2029) & (K Meters)
- Table 57. World Neodymium-Doped Double-Clad Fiber Production Value by Application (2018-2023) & (USD Million)
- Table 58. World Neodymium-Doped Double-Clad Fiber Production Value by Application (2024-2029) & (USD Million)
- Table 59. World Neodymium-Doped Double-Clad Fiber Average Price by Application

(2018-2023) & (US\$/K Metres)

Table 60. World Neodymium-Doped Double-Clad Fiber Average Price by Application

(2024-2029) & (US\$/K Metres)

Table 61. Coractive High-Tech Inc. Basic Information, Manufacturing Base and Competitors

Table 62. Coractive High-Tech Inc. Major Business

Table 63. Coractive High-Tech Inc. Neodymium-Doped Double-Clad Fiber Product and Services

Table 64. Coractive High-Tech Inc. Neodymium-Doped Double-Clad Fiber Production (K Meters), Price (US\$/K Metres), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. Coractive High-Tech Inc. Recent Developments/Updates

Table 66. Coractive High-Tech Inc. Competitive Strengths & Weaknesses

Table 67. Fibercore Basic Information, Manufacturing Base and Competitors

Table 68. Fibercore Major Business

Table 69. Fibercore Neodymium-Doped Double-Clad Fiber Product and Services

Table 70. Fibercore Neodymium-Doped Double-Clad Fiber Production (K Meters), Price (US\$/K Metres), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. Fibercore Recent Developments/Updates

Table 72. Fibercore Competitive Strengths & Weaknesses

Table 73. Fujikura Ltd. Basic Information, Manufacturing Base and Competitors

Table 74. Fujikura Ltd. Major Business

Table 75. Fujikura Ltd. Neodymium-Doped Double-Clad Fiber Product and Services

Table 76. Fujikura Ltd. Neodymium-Doped Double-Clad Fiber Production (K Meters), Price (US\$/K Metres), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Fujikura Ltd. Recent Developments/Updates

Table 78. Fujikura Ltd. Competitive Strengths & Weaknesses

Table 79. iXBlue Photonics Basic Information, Manufacturing Base and Competitors

Table 80. iXBlue Photonics Major Business

Table 81. iXBlue Photonics Neodymium-Doped Double-Clad Fiber Product and Services

Table 82. iXBlue Photonics Neodymium-Doped Double-Clad Fiber Production (K Meters), Price (US\$/K Metres), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 83. iXBlue Photonics Recent Developments/Updates

Table 84. iXBlue Photonics Competitive Strengths & Weaknesses

Table 85. ITF Technologies Inc. Basic Information, Manufacturing Base and

Competitors

Table 86. ITF Technologies Inc. Major Business

Table 87. ITF Technologies Inc. Neodymium-Doped Double-Clad Fiber Product and Services

Table 88. ITF Technologies Inc. Neodymium-Doped Double-Clad Fiber Production (K Meters), Price (US\$/K Metres), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 89. ITF Technologies Inc. Recent Developments/Updates

Table 90. ITF Technologies Inc. Competitive Strengths & Weaknesses

Table 91. Le Verre Fluor? Basic Information, Manufacturing Base and Competitors

Table 92. Le Verre Fluor? Major Business

Table 93. Le Verre Fluor? Neodymium-Doped Double-Clad Fiber Product and Services

Table 94. Le Verre Fluor? Neodymium-Doped Double-Clad Fiber Production (K Meters), Price (US\$/K Metres), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 95. Le Verre Fluor? Recent Developments/Updates

Table 96. Le Verre Fluor? Competitive Strengths & Weaknesses

Table 97. LIEKKI Corporation Basic Information, Manufacturing Base and Competitors

Table 98. LIEKKI Corporation Major Business

Table 99. LIEKKI Corporation Neodymium-Doped Double-Clad Fiber Product and Services

Table 100. LIEKKI Corporation Neodymium-Doped Double-Clad Fiber Production (K Meters), Price (US\$/K Metres), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 101. LIEKKI Corporation Recent Developments/Updates

Table 102. LIEKKI Corporation Competitive Strengths & Weaknesses

Table 103. NKT Photonics Basic Information, Manufacturing Base and Competitors

Table 104. NKT Photonics Major Business

Table 105. NKT Photonics Neodymium-Doped Double-Clad Fiber Product and Services

Table 106. NKT Photonics Neodymium-Doped Double-Clad Fiber Production (K Meters), Price (US\$/K Metres), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 107. NKT Photonics Recent Developments/Updates

Table 108. NKT Photonics Competitive Strengths & Weaknesses

Table 109. Nufern Basic Information, Manufacturing Base and Competitors

Table 110. Nufern Major Business

Table 111. Nufern Neodymium-Doped Double-Clad Fiber Product and Services

Table 112. Nufern Neodymium-Doped Double-Clad Fiber Production (K Meters), Price (US\$/K Metres), Production Value (USD Million), Gross Margin and Market Share

(2018-2023)

Table 113. Nufern Recent Developments/Updates

Table 114. Nufern Competitive Strengths & Weaknesses

Table 115. OFS Fitel Basic Information, Manufacturing Base and Competitors

Table 116. OFS Fitel Major Business

Table 117. OFS Fitel Neodymium-Doped Double-Clad Fiber Product and Services

Table 118. OFS Fitel Neodymium-Doped Double-Clad Fiber Production (K Meters), Price (US\$/K Metres), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 119. OFS Fitel Recent Developments/Updates

Table 120. OFS Fitel Competitive Strengths & Weaknesses

Table 121. Photonics Industries International Inc. Basic Information, Manufacturing Base and Competitors

Table 122. Photonics Industries International Inc. Major Business

Table 123. Photonics Industries International Inc. Neodymium-Doped Double-Clad Fiber Product and Services

Table 124. Photonics Industries International Inc. Neodymium-Doped Double-Clad Fiber Production (K Meters), Price (US\$/K Metres), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 125. Photonics Industries International Inc. Recent Developments/Updates

Table 126. Photonics Industries International Inc. Competitive Strengths & Weaknesses

Table 127. PolarOnyx Basic Information, Manufacturing Base and Competitors

Table 128. PolarOnyx Major Business

Table 129. PolarOnyx Neodymium-Doped Double-Clad Fiber Product and Services

Table 130. PolarOnyx Neodymium-Doped Double-Clad Fiber Production (K Meters), Price (US\$/K Metres), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 131. PolarOnyx Recent Developments/Updates

Table 132. PolarOnyx Competitive Strengths & Weaknesses

Table 133. QD Laser Basic Information, Manufacturing Base and Competitors

Table 134. QD Laser Major Business

Table 135. QD Laser Neodymium-Doped Double-Clad Fiber Product and Services

Table 136. QD Laser Neodymium-Doped Double-Clad Fiber Production (K Meters), Price (US\$/K Metres), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 137. QD Laser Recent Developments/Updates

Table 138. QD Laser Competitive Strengths & Weaknesses

Table 139. Thorlabs Basic Information, Manufacturing Base and Competitors

Table 140. Thorlabs Major Business

Table 141. Thorlabs Neodymium-Doped Double-Clad Fiber Product and Services

Table 142. Thorlabs Neodymium-Doped Double-Clad Fiber Production (K Meters), Price (US\$/K Metres), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 143. Thorlabs Recent Developments/Updates

Table 144. YOFC (Yangtze Optical Fiber and Cable) Basic Information, Manufacturing Base and Competitors

Table 145. YOFC (Yangtze Optical Fiber and Cable) Major Business

Table 146. YOFC (Yangtze Optical Fiber and Cable) Neodymium-Doped Double-Clad Fiber Product and Services

Table 147. YOFC (Yangtze Optical Fiber and Cable) Neodymium-Doped Double-Clad Fiber Production (K Meters), Price (US\$/K Metres), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 148. Global Key Players of Neodymium-Doped Double-Clad Fiber Upstream (Raw Materials)

Table 149. Neodymium-Doped Double-Clad Fiber Typical Customers

Table 150. Neodymium-Doped Double-Clad Fiber Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Neodymium-Doped Double-Clad Fiber Picture

Figure 2. World Neodymium-Doped Double-Clad Fiber Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World Neodymium-Doped Double-Clad Fiber Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World Neodymium-Doped Double-Clad Fiber Production (2018-2029) & (K Meters)

Figure 5. World Neodymium-Doped Double-Clad Fiber Average Price (2018-2029) & (US\$/K Metres)

Figure 6. World Neodymium-Doped Double-Clad Fiber Production Value Market Share by Region (2018-2029)

Figure 7. World Neodymium-Doped Double-Clad Fiber Production Market Share by Region (2018-2029)

Figure 8. North America Neodymium-Doped Double-Clad Fiber Production (2018-2029) & (K Meters)

Figure 9. Europe Neodymium-Doped Double-Clad Fiber Production (2018-2029) & (K Meters)

Figure 10. China Neodymium-Doped Double-Clad Fiber Production (2018-2029) & (K Meters)

Figure 11. Japan Neodymium-Doped Double-Clad Fiber Production (2018-2029) & (K Meters)

Figure 12. South Korea Neodymium-Doped Double-Clad Fiber Production (2018-2029) & (K Meters)

Figure 13. Neodymium-Doped Double-Clad Fiber Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Neodymium-Doped Double-Clad Fiber Consumption (2018-2029) & (K Meters)

Figure 16. World Neodymium-Doped Double-Clad Fiber Consumption Market Share by Region (2018-2029)

Figure 17. United States Neodymium-Doped Double-Clad Fiber Consumption (2018-2029) & (K Meters)

Figure 18. China Neodymium-Doped Double-Clad Fiber Consumption (2018-2029) & (K Meters)

Figure 19. Europe Neodymium-Doped Double-Clad Fiber Consumption (2018-2029) & (K Meters)

Figure 20. Japan Neodymium-Doped Double-Clad Fiber Consumption (2018-2029) & (K Meters)

Figure 21. South Korea Neodymium-Doped Double-Clad Fiber Consumption (2018-2029) & (K Meters)

Figure 22. ASEAN Neodymium-Doped Double-Clad Fiber Consumption (2018-2029) & (K Meters)

Figure 23. India Neodymium-Doped Double-Clad Fiber Consumption (2018-2029) & (K Meters)

Figure 24. Producer Shipments of Neodymium-Doped Double-Clad Fiber by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 25. Global Four-firm Concentration Ratios (CR4) for Neodymium-Doped Double-Clad Fiber Markets in 2022

Figure 26. Global Four-firm Concentration Ratios (CR8) for Neodymium-Doped Double-Clad Fiber Markets in 2022

Figure 27. United States VS China: Neodymium-Doped Double-Clad Fiber Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: Neodymium-Doped Double-Clad Fiber Production Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States VS China: Neodymium-Doped Double-Clad Fiber Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 30. United States Based Manufacturers Neodymium-Doped Double-Clad Fiber Production Market Share 2022

Figure 31. China Based Manufacturers Neodymium-Doped Double-Clad Fiber Production Market Share 2022

Figure 32. Rest of World Based Manufacturers Neodymium-Doped Double-Clad Fiber Production Market Share 2022

Figure 33. World Neodymium-Doped Double-Clad Fiber Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 34. World Neodymium-Doped Double-Clad Fiber Production Value Market Share by Type in 2022

Figure 35. Single Mode Neodymium Doped Double Clad Fiber

Figure 36. Multimode Neodymium-Doped Double-Clad Fiber

Figure 37. World Neodymium-Doped Double-Clad Fiber Production Market Share by Type (2018-2029)

Figure 38. World Neodymium-Doped Double-Clad Fiber Production Value Market Share by Type (2018-2029)

Figure 39. World Neodymium-Doped Double-Clad Fiber Average Price by Type (2018-2029) & (US\$/K Metres)

Figure 40. World Neodymium-Doped Double-Clad Fiber Production Value by

Application, (USD Million), 2018 & 2022 & 2029

Figure 41. World Neodymium-Doped Double-Clad Fiber Production Value Market Share by Application in 2022

Figure 42. Laser Processing

Figure 43. Optical Communication

Figure 44. Industrial Inspection

Figure 45. Others

Figure 46. World Neodymium-Doped Double-Clad Fiber Production Market Share by Application (2018-2029)

Figure 47. World Neodymium-Doped Double-Clad Fiber Production Value Market Share by Application (2018-2029)

Figure 48. World Neodymium-Doped Double-Clad Fiber Average Price by Application (2018-2029) & (US\$/K Metres)

Figure 49. Neodymium-Doped Double-Clad Fiber Industry Chain

Figure 50. Neodymium-Doped Double-Clad Fiber Procurement Model

Figure 51. Neodymium-Doped Double-Clad Fiber Sales Model

Figure 52. Neodymium-Doped Double-Clad Fiber Sales Channels, Direct Sales, and Distribution

Figure 53. Methodology

Figure 54. Research Process and Data Source

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