

# Global NTD Single Crystal Rod Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global NTD Single Crystal Rod market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

NTD single crystal rod is a single crystal silicon rod grown through neutron transmutation doping technology. It is characterized by a very uniform doping impurity concentration distribution and is suitable for manufacturing high-power semiconductor devices. NTD technology uses neutron irradiation to dope silicon materials. Through thermal neutron irradiation, some silicon isotope atoms can be converted into phosphorus (P) atoms, thus the donor phosphorus appears in the silicon. Making silicon N-type. The advantages of NTD single crystal rods are high purity, low oxygen content, low defect density, high resistivity uniformity and other characteristics.

The Global Info Research report includes an overview of the development of the NTD Single Crystal Rod industry chain, the market status of Semiconductor Industry (NTD Zone Melted Silicon Single Crystal Rod, NTD Czochralski Silicon Single Crystal Rod), PV Industry (NTD Zone Melted Silicon Single Crystal Rod, NTD Czochralski Silicon Single Crystal Rod), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of NTD Single Crystal Rod.

Regionally, the report analyzes the NTD Single Crystal Rod markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global NTD Single Crystal Rod market, with robust domestic demand, supportive

policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the NTD Single Crystal Rod market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the NTD Single Crystal Rod industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (Tons), revenue generated, and market share of different by Type (e.g., NTD Zone Melted Silicon Single Crystal Rod, NTD Czochralski Silicon Single Crystal Rod).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the NTD Single Crystal Rod market.

**Regional Analysis:** The report involves examining the NTD Single Crystal Rod market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the NTD Single Crystal Rod market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to NTD Single Crystal Rod:

**Company Analysis:** Report covers individual NTD Single Crystal Rod manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and

attitudes towards NTD Single Crystal Rod This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Semiconductor Industry, PV Industry).

**Technology Analysis:** Report covers specific technologies relevant to NTD Single Crystal Rod. It assesses the current state, advancements, and potential future developments in NTD Single Crystal Rod areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the NTD Single Crystal Rod market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

NTD Single Crystal Rod market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

NTD Zone Melted Silicon Single Crystal Rod

NTD Czochralski Silicon Single Crystal Rod

### Market segment by Application

Semiconductor Industry

PV Industry

Nuclear Energy Industry

Others

## Major players covered

Shin-Etsu Handotai

Siltronic

SUMCO

Okmetic

WaferPro

PVA CGS

Renewable Energy Corporation

Topsil

Wafer Works

SunEdison Semiconductor

Comtec Solar Systems Group

Sino-American Silicon Products

Jinglong Group

## Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe NTD Single Crystal Rod product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of NTD Single Crystal Rod, with price, sales, revenue and global market share of NTD Single Crystal Rod from 2019 to 2024.

Chapter 3, the NTD Single Crystal Rod competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the NTD Single Crystal Rod breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and NTD Single Crystal Rod market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of NTD Single Crystal Rod.

Chapter 14 and 15, to describe NTD Single Crystal Rod sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of NTD Single Crystal Rod
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
  - 1.3.1 Overview: Global NTD Single Crystal Rod Consumption Value by Type: 2019 Versus 2023 Versus 2030
  - 1.3.2 NTD Zone Melted Silicon Single Crystal Rod
  - 1.3.3 NTD Czochralski Silicon Single Crystal Rod
- 1.4 Market Analysis by Application
  - 1.4.1 Overview: Global NTD Single Crystal Rod Consumption Value by Application: 2019 Versus 2023 Versus 2030
  - 1.4.2 Semiconductor Industry
  - 1.4.3 PV Industry
  - 1.4.4 Nuclear Energy Industry
  - 1.4.5 Others
- 1.5 Global NTD Single Crystal Rod Market Size & Forecast
  - 1.5.1 Global NTD Single Crystal Rod Consumption Value (2019 & 2023 & 2030)
  - 1.5.2 Global NTD Single Crystal Rod Sales Quantity (2019-2030)
  - 1.5.3 Global NTD Single Crystal Rod Average Price (2019-2030)

### 2 MANUFACTURERS PROFILES

- 2.1 Shin-Etsu Handotai
  - 2.1.1 Shin-Etsu Handotai Details
  - 2.1.2 Shin-Etsu Handotai Major Business
  - 2.1.3 Shin-Etsu Handotai NTD Single Crystal Rod Product and Services
  - 2.1.4 Shin-Etsu Handotai NTD Single Crystal Rod Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.1.5 Shin-Etsu Handotai Recent Developments/Updates
- 2.2 Siltronic
  - 2.2.1 Siltronic Details
  - 2.2.2 Siltronic Major Business
  - 2.2.3 Siltronic NTD Single Crystal Rod Product and Services
  - 2.2.4 Siltronic NTD Single Crystal Rod Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.2.5 Siltronic Recent Developments/Updates

## 2.3 SUMCO

### 2.3.1 SUMCO Details

### 2.3.2 SUMCO Major Business

### 2.3.3 SUMCO NTD Single Crystal Rod Product and Services

### 2.3.4 SUMCO NTD Single Crystal Rod Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.3.5 SUMCO Recent Developments/Updates

## 2.4 Okmetic

### 2.4.1 Okmetic Details

### 2.4.2 Okmetic Major Business

### 2.4.3 Okmetic NTD Single Crystal Rod Product and Services

### 2.4.4 Okmetic NTD Single Crystal Rod Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.4.5 Okmetic Recent Developments/Updates

## 2.5 WaferPro

### 2.5.1 WaferPro Details

### 2.5.2 WaferPro Major Business

### 2.5.3 WaferPro NTD Single Crystal Rod Product and Services

### 2.5.4 WaferPro NTD Single Crystal Rod Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.5.5 WaferPro Recent Developments/Updates

## 2.6 PVA CGS

### 2.6.1 PVA CGS Details

### 2.6.2 PVA CGS Major Business

### 2.6.3 PVA CGS NTD Single Crystal Rod Product and Services

### 2.6.4 PVA CGS NTD Single Crystal Rod Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.6.5 PVA CGS Recent Developments/Updates

## 2.7 Renewable Energy Corporation

### 2.7.1 Renewable Energy Corporation Details

### 2.7.2 Renewable Energy Corporation Major Business

### 2.7.3 Renewable Energy Corporation NTD Single Crystal Rod Product and Services

### 2.7.4 Renewable Energy Corporation NTD Single Crystal Rod Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.7.5 Renewable Energy Corporation Recent Developments/Updates

## 2.8 Topsil

### 2.8.1 Topsil Details

### 2.8.2 Topsil Major Business

### 2.8.3 Topsil NTD Single Crystal Rod Product and Services

2.8.4 Topsil NTD Single Crystal Rod Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.8.5 Topsil Recent Developments/Updates

2.9 Wafer Works

2.9.1 Wafer Works Details

2.9.2 Wafer Works Major Business

2.9.3 Wafer Works NTD Single Crystal Rod Product and Services

2.9.4 Wafer Works NTD Single Crystal Rod Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.9.5 Wafer Works Recent Developments/Updates

2.10 SunEdison Semiconductor

2.10.1 SunEdison Semiconductor Details

2.10.2 SunEdison Semiconductor Major Business

2.10.3 SunEdison Semiconductor NTD Single Crystal Rod Product and Services

2.10.4 SunEdison Semiconductor NTD Single Crystal Rod Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.10.5 SunEdison Semiconductor Recent Developments/Updates

2.11 Comtec Solar Systems Group

2.11.1 Comtec Solar Systems Group Details

2.11.2 Comtec Solar Systems Group Major Business

2.11.3 Comtec Solar Systems Group NTD Single Crystal Rod Product and Services

2.11.4 Comtec Solar Systems Group NTD Single Crystal Rod Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.11.5 Comtec Solar Systems Group Recent Developments/Updates

2.12 Sino-American Silicon Products

2.12.1 Sino-American Silicon Products Details

2.12.2 Sino-American Silicon Products Major Business

2.12.3 Sino-American Silicon Products NTD Single Crystal Rod Product and Services

2.12.4 Sino-American Silicon Products NTD Single Crystal Rod Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.12.5 Sino-American Silicon Products Recent Developments/Updates

2.13 Jinglong Group

2.13.1 Jinglong Group Details

2.13.2 Jinglong Group Major Business

2.13.3 Jinglong Group NTD Single Crystal Rod Product and Services

2.13.4 Jinglong Group NTD Single Crystal Rod Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.13.5 Jinglong Group Recent Developments/Updates



### **3 COMPETITIVE ENVIRONMENT: NTD SINGLE CRYSTAL ROD BY MANUFACTURER**

- 3.1 Global NTD Single Crystal Rod Sales Quantity by Manufacturer (2019-2024)
- 3.2 Global NTD Single Crystal Rod Revenue by Manufacturer (2019-2024)
- 3.3 Global NTD Single Crystal Rod Average Price by Manufacturer (2019-2024)
- 3.4 Market Share Analysis (2023)
  - 3.4.1 Producer Shipments of NTD Single Crystal Rod by Manufacturer Revenue (\$MM) and Market Share (%): 2023
  - 3.4.2 Top 3 NTD Single Crystal Rod Manufacturer Market Share in 2023
  - 3.4.2 Top 6 NTD Single Crystal Rod Manufacturer Market Share in 2023
- 3.5 NTD Single Crystal Rod Market: Overall Company Footprint Analysis
  - 3.5.1 NTD Single Crystal Rod Market: Region Footprint
  - 3.5.2 NTD Single Crystal Rod Market: Company Product Type Footprint
  - 3.5.3 NTD Single Crystal Rod Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

### **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global NTD Single Crystal Rod Market Size by Region
  - 4.1.1 Global NTD Single Crystal Rod Sales Quantity by Region (2019-2030)
  - 4.1.2 Global NTD Single Crystal Rod Consumption Value by Region (2019-2030)
  - 4.1.3 Global NTD Single Crystal Rod Average Price by Region (2019-2030)
- 4.2 North America NTD Single Crystal Rod Consumption Value (2019-2030)
- 4.3 Europe NTD Single Crystal Rod Consumption Value (2019-2030)
- 4.4 Asia-Pacific NTD Single Crystal Rod Consumption Value (2019-2030)
- 4.5 South America NTD Single Crystal Rod Consumption Value (2019-2030)
- 4.6 Middle East and Africa NTD Single Crystal Rod Consumption Value (2019-2030)

### **5 MARKET SEGMENT BY TYPE**

- 5.1 Global NTD Single Crystal Rod Sales Quantity by Type (2019-2030)
- 5.2 Global NTD Single Crystal Rod Consumption Value by Type (2019-2030)
- 5.3 Global NTD Single Crystal Rod Average Price by Type (2019-2030)

### **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global NTD Single Crystal Rod Sales Quantity by Application (2019-2030)

- 6.2 Global NTD Single Crystal Rod Consumption Value by Application (2019-2030)
- 6.3 Global NTD Single Crystal Rod Average Price by Application (2019-2030)

## **7 NORTH AMERICA**

- 7.1 North America NTD Single Crystal Rod Sales Quantity by Type (2019-2030)
- 7.2 North America NTD Single Crystal Rod Sales Quantity by Application (2019-2030)
- 7.3 North America NTD Single Crystal Rod Market Size by Country
  - 7.3.1 North America NTD Single Crystal Rod Sales Quantity by Country (2019-2030)
  - 7.3.2 North America NTD Single Crystal Rod Consumption Value by Country (2019-2030)
  - 7.3.3 United States Market Size and Forecast (2019-2030)
  - 7.3.4 Canada Market Size and Forecast (2019-2030)
  - 7.3.5 Mexico Market Size and Forecast (2019-2030)

## **8 EUROPE**

- 8.1 Europe NTD Single Crystal Rod Sales Quantity by Type (2019-2030)
- 8.2 Europe NTD Single Crystal Rod Sales Quantity by Application (2019-2030)
- 8.3 Europe NTD Single Crystal Rod Market Size by Country
  - 8.3.1 Europe NTD Single Crystal Rod Sales Quantity by Country (2019-2030)
  - 8.3.2 Europe NTD Single Crystal Rod Consumption Value by Country (2019-2030)
  - 8.3.3 Germany Market Size and Forecast (2019-2030)
  - 8.3.4 France Market Size and Forecast (2019-2030)
  - 8.3.5 United Kingdom Market Size and Forecast (2019-2030)
  - 8.3.6 Russia Market Size and Forecast (2019-2030)
  - 8.3.7 Italy Market Size and Forecast (2019-2030)

## **9 ASIA-PACIFIC**

- 9.1 Asia-Pacific NTD Single Crystal Rod Sales Quantity by Type (2019-2030)
- 9.2 Asia-Pacific NTD Single Crystal Rod Sales Quantity by Application (2019-2030)
- 9.3 Asia-Pacific NTD Single Crystal Rod Market Size by Region
  - 9.3.1 Asia-Pacific NTD Single Crystal Rod Sales Quantity by Region (2019-2030)
  - 9.3.2 Asia-Pacific NTD Single Crystal Rod Consumption Value by Region (2019-2030)
  - 9.3.3 China Market Size and Forecast (2019-2030)
  - 9.3.4 Japan Market Size and Forecast (2019-2030)
  - 9.3.5 Korea Market Size and Forecast (2019-2030)
  - 9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

## **10 SOUTH AMERICA**

10.1 South America NTD Single Crystal Rod Sales Quantity by Type (2019-2030)

10.2 South America NTD Single Crystal Rod Sales Quantity by Application (2019-2030)

10.3 South America NTD Single Crystal Rod Market Size by Country

10.3.1 South America NTD Single Crystal Rod Sales Quantity by Country (2019-2030)

10.3.2 South America NTD Single Crystal Rod Consumption Value by Country  
(2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa NTD Single Crystal Rod Sales Quantity by Type (2019-2030)

11.2 Middle East & Africa NTD Single Crystal Rod Sales Quantity by Application  
(2019-2030)

11.3 Middle East & Africa NTD Single Crystal Rod Market Size by Country

11.3.1 Middle East & Africa NTD Single Crystal Rod Sales Quantity by Country  
(2019-2030)

11.3.2 Middle East & Africa NTD Single Crystal Rod Consumption Value by Country  
(2019-2030)

11.3.3 Turkey Market Size and Forecast (2019-2030)

11.3.4 Egypt Market Size and Forecast (2019-2030)

11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

11.3.6 South Africa Market Size and Forecast (2019-2030)

## **12 MARKET DYNAMICS**

12.1 NTD Single Crystal Rod Market Drivers

12.2 NTD Single Crystal Rod Market Restraints

12.3 NTD Single Crystal Rod Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of NTD Single Crystal Rod and Key Manufacturers

13.2 Manufacturing Costs Percentage of NTD Single Crystal Rod

13.3 NTD Single Crystal Rod Production Process

13.4 NTD Single Crystal Rod Industrial Chain

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 NTD Single Crystal Rod Typical Distributors

14.3 NTD Single Crystal Rod Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. Global NTD Single Crystal Rod Consumption Value by Type, (USD Million), 2019 & 2023 & 2030
- Table 2. Global NTD Single Crystal Rod Consumption Value by Application, (USD Million), 2019 & 2023 & 2030
- Table 3. Shin-Etsu Handotai Basic Information, Manufacturing Base and Competitors
- Table 4. Shin-Etsu Handotai Major Business
- Table 5. Shin-Etsu Handotai NTD Single Crystal Rod Product and Services
- Table 6. Shin-Etsu Handotai NTD Single Crystal Rod Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 7. Shin-Etsu Handotai Recent Developments/Updates
- Table 8. Siltronic Basic Information, Manufacturing Base and Competitors
- Table 9. Siltronic Major Business
- Table 10. Siltronic NTD Single Crystal Rod Product and Services
- Table 11. Siltronic NTD Single Crystal Rod Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 12. Siltronic Recent Developments/Updates
- Table 13. SUMCO Basic Information, Manufacturing Base and Competitors
- Table 14. SUMCO Major Business
- Table 15. SUMCO NTD Single Crystal Rod Product and Services
- Table 16. SUMCO NTD Single Crystal Rod Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 17. SUMCO Recent Developments/Updates
- Table 18. Okmetic Basic Information, Manufacturing Base and Competitors
- Table 19. Okmetic Major Business
- Table 20. Okmetic NTD Single Crystal Rod Product and Services
- Table 21. Okmetic NTD Single Crystal Rod Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 22. Okmetic Recent Developments/Updates
- Table 23. WaferPro Basic Information, Manufacturing Base and Competitors
- Table 24. WaferPro Major Business
- Table 25. WaferPro NTD Single Crystal Rod Product and Services
- Table 26. WaferPro NTD Single Crystal Rod Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 27. WaferPro Recent Developments/Updates
- Table 28. PVA CGS Basic Information, Manufacturing Base and Competitors

Table 29. PVA CGS Major Business

Table 30. PVA CGS NTD Single Crystal Rod Product and Services

Table 31. PVA CGS NTD Single Crystal Rod Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. PVA CGS Recent Developments/Updates

Table 33. Renewable Energy Corporation Basic Information, Manufacturing Base and Competitors

Table 34. Renewable Energy Corporation Major Business

Table 35. Renewable Energy Corporation NTD Single Crystal Rod Product and Services

Table 36. Renewable Energy Corporation NTD Single Crystal Rod Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. Renewable Energy Corporation Recent Developments/Updates

Table 38. Topsil Basic Information, Manufacturing Base and Competitors

Table 39. Topsil Major Business

Table 40. Topsil NTD Single Crystal Rod Product and Services

Table 41. Topsil NTD Single Crystal Rod Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 42. Topsil Recent Developments/Updates

Table 43. Wafer Works Basic Information, Manufacturing Base and Competitors

Table 44. Wafer Works Major Business

Table 45. Wafer Works NTD Single Crystal Rod Product and Services

Table 46. Wafer Works NTD Single Crystal Rod Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 47. Wafer Works Recent Developments/Updates

Table 48. SunEdison Semiconductor Basic Information, Manufacturing Base and Competitors

Table 49. SunEdison Semiconductor Major Business

Table 50. SunEdison Semiconductor NTD Single Crystal Rod Product and Services

Table 51. SunEdison Semiconductor NTD Single Crystal Rod Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 52. SunEdison Semiconductor Recent Developments/Updates

Table 53. Comtec Solar Systems Group Basic Information, Manufacturing Base and Competitors

Table 54. Comtec Solar Systems Group Major Business

Table 55. Comtec Solar Systems Group NTD Single Crystal Rod Product and Services

Table 56. Comtec Solar Systems Group NTD Single Crystal Rod Sales Quantity (Tons),

Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 57. Comtec Solar Systems Group Recent Developments/Updates

Table 58. Sino-American Silicon Products Basic Information, Manufacturing Base and Competitors

Table 59. Sino-American Silicon Products Major Business

Table 60. Sino-American Silicon Products NTD Single Crystal Rod Product and Services

Table 61. Sino-American Silicon Products NTD Single Crystal Rod Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 62. Sino-American Silicon Products Recent Developments/Updates

Table 63. Jinglong Group Basic Information, Manufacturing Base and Competitors

Table 64. Jinglong Group Major Business

Table 65. Jinglong Group NTD Single Crystal Rod Product and Services

Table 66. Jinglong Group NTD Single Crystal Rod Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 67. Jinglong Group Recent Developments/Updates

Table 68. Global NTD Single Crystal Rod Sales Quantity by Manufacturer (2019-2024) & (Tons)

Table 69. Global NTD Single Crystal Rod Revenue by Manufacturer (2019-2024) & (USD Million)

Table 70. Global NTD Single Crystal Rod Average Price by Manufacturer (2019-2024) & (US\$/Ton)

Table 71. Market Position of Manufacturers in NTD Single Crystal Rod, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 72. Head Office and NTD Single Crystal Rod Production Site of Key Manufacturer

Table 73. NTD Single Crystal Rod Market: Company Product Type Footprint

Table 74. NTD Single Crystal Rod Market: Company Product Application Footprint

Table 75. NTD Single Crystal Rod New Market Entrants and Barriers to Market Entry

Table 76. NTD Single Crystal Rod Mergers, Acquisition, Agreements, and Collaborations

Table 77. Global NTD Single Crystal Rod Sales Quantity by Region (2019-2024) & (Tons)

Table 78. Global NTD Single Crystal Rod Sales Quantity by Region (2025-2030) & (Tons)

Table 79. Global NTD Single Crystal Rod Consumption Value by Region (2019-2024) & (USD Million)

Table 80. Global NTD Single Crystal Rod Consumption Value by Region (2025-2030) &

(USD Million)

Table 81. Global NTD Single Crystal Rod Average Price by Region (2019-2024) & (US\$/Ton)

Table 82. Global NTD Single Crystal Rod Average Price by Region (2025-2030) & (US\$/Ton)

Table 83. Global NTD Single Crystal Rod Sales Quantity by Type (2019-2024) & (Tons)

Table 84. Global NTD Single Crystal Rod Sales Quantity by Type (2025-2030) & (Tons)

Table 85. Global NTD Single Crystal Rod Consumption Value by Type (2019-2024) & (USD Million)

Table 86. Global NTD Single Crystal Rod Consumption Value by Type (2025-2030) & (USD Million)

Table 87. Global NTD Single Crystal Rod Average Price by Type (2019-2024) & (US\$/Ton)

Table 88. Global NTD Single Crystal Rod Average Price by Type (2025-2030) & (US\$/Ton)

Table 89. Global NTD Single Crystal Rod Sales Quantity by Application (2019-2024) & (Tons)

Table 90. Global NTD Single Crystal Rod Sales Quantity by Application (2025-2030) & (Tons)

Table 91. Global NTD Single Crystal Rod Consumption Value by Application (2019-2024) & (USD Million)

Table 92. Global NTD Single Crystal Rod Consumption Value by Application (2025-2030) & (USD Million)

Table 93. Global NTD Single Crystal Rod Average Price by Application (2019-2024) & (US\$/Ton)

Table 94. Global NTD Single Crystal Rod Average Price by Application (2025-2030) & (US\$/Ton)

Table 95. North America NTD Single Crystal Rod Sales Quantity by Type (2019-2024) & (Tons)

Table 96. North America NTD Single Crystal Rod Sales Quantity by Type (2025-2030) & (Tons)

Table 97. North America NTD Single Crystal Rod Sales Quantity by Application (2019-2024) & (Tons)

Table 98. North America NTD Single Crystal Rod Sales Quantity by Application (2025-2030) & (Tons)

Table 99. North America NTD Single Crystal Rod Sales Quantity by Country (2019-2024) & (Tons)

Table 100. North America NTD Single Crystal Rod Sales Quantity by Country (2025-2030) & (Tons)



Table 101. North America NTD Single Crystal Rod Consumption Value by Country (2019-2024) & (USD Million)

Table 102. North America NTD Single Crystal Rod Consumption Value by Country (2025-2030) & (USD Million)

Table 103. Europe NTD Single Crystal Rod Sales Quantity by Type (2019-2024) & (Tons)

Table 104. Europe NTD Single Crystal Rod Sales Quantity by Type (2025-2030) & (Tons)

Table 105. Europe NTD Single Crystal Rod Sales Quantity by Application (2019-2024) & (Tons)

Table 106. Europe NTD Single Crystal Rod Sales Quantity by Application (2025-2030) & (Tons)

Table 107. Europe NTD Single Crystal Rod Sales Quantity by Country (2019-2024) & (Tons)

Table 108. Europe NTD Single Crystal Rod Sales Quantity by Country (2025-2030) & (Tons)

Table 109. Europe NTD Single Crystal Rod Consumption Value by Country (2019-2024) & (USD Million)

Table 110. Europe NTD Single Crystal Rod Consumption Value by Country (2025-2030) & (USD Million)

Table 111. Asia-Pacific NTD Single Crystal Rod Sales Quantity by Type (2019-2024) & (Tons)

Table 112. Asia-Pacific NTD Single Crystal Rod Sales Quantity by Type (2025-2030) & (Tons)

Table 113. Asia-Pacific NTD Single Crystal Rod Sales Quantity by Application (2019-2024) & (Tons)

Table 114. Asia-Pacific NTD Single Crystal Rod Sales Quantity by Application (2025-2030) & (Tons)

Table 115. Asia-Pacific NTD Single Crystal Rod Sales Quantity by Region (2019-2024) & (Tons)

Table 116. Asia-Pacific NTD Single Crystal Rod Sales Quantity by Region (2025-2030) & (Tons)

Table 117. Asia-Pacific NTD Single Crystal Rod Consumption Value by Region (2019-2024) & (USD Million)

Table 118. Asia-Pacific NTD Single Crystal Rod Consumption Value by Region (2025-2030) & (USD Million)

Table 119. South America NTD Single Crystal Rod Sales Quantity by Type (2019-2024) & (Tons)

Table 120. South America NTD Single Crystal Rod Sales Quantity by Type (2025-2030)

& (Tons)

Table 121. South America NTD Single Crystal Rod Sales Quantity by Application (2019-2024) & (Tons)

Table 122. South America NTD Single Crystal Rod Sales Quantity by Application (2025-2030) & (Tons)

Table 123. South America NTD Single Crystal Rod Sales Quantity by Country (2019-2024) & (Tons)

Table 124. South America NTD Single Crystal Rod Sales Quantity by Country (2025-2030) & (Tons)

Table 125. South America NTD Single Crystal Rod Consumption Value by Country (2019-2024) & (USD Million)

Table 126. South America NTD Single Crystal Rod Consumption Value by Country (2025-2030) & (USD Million)

Table 127. Middle East & Africa NTD Single Crystal Rod Sales Quantity by Type (2019-2024) & (Tons)

Table 128. Middle East & Africa NTD Single Crystal Rod Sales Quantity by Type (2025-2030) & (Tons)

Table 129. Middle East & Africa NTD Single Crystal Rod Sales Quantity by Application (2019-2024) & (Tons)

Table 130. Middle East & Africa NTD Single Crystal Rod Sales Quantity by Application (2025-2030) & (Tons)

Table 131. Middle East & Africa NTD Single Crystal Rod Sales Quantity by Region (2019-2024) & (Tons)

Table 132. Middle East & Africa NTD Single Crystal Rod Sales Quantity by Region (2025-2030) & (Tons)

Table 133. Middle East & Africa NTD Single Crystal Rod Consumption Value by Region (2019-2024) & (USD Million)

Table 134. Middle East & Africa NTD Single Crystal Rod Consumption Value by Region (2025-2030) & (USD Million)

Table 135. NTD Single Crystal Rod Raw Material

Table 136. Key Manufacturers of NTD Single Crystal Rod Raw Materials

Table 137. NTD Single Crystal Rod Typical Distributors

Table 138. NTD Single Crystal Rod Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. NTD Single Crystal Rod Picture

Figure 2. Global NTD Single Crystal Rod Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global NTD Single Crystal Rod Consumption Value Market Share by Type in 2023

Figure 4. NTD Zone Melted Silicon Single Crystal Rod Examples

Figure 5. NTD Czochralski Silicon Single Crystal Rod Examples

Figure 6. Global NTD Single Crystal Rod Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 7. Global NTD Single Crystal Rod Consumption Value Market Share by Application in 2023

Figure 8. Semiconductor Industry Examples

Figure 9. PV Industry Examples

Figure 10. Nuclear Energy Industry Examples

Figure 11. Others Examples

Figure 12. Global NTD Single Crystal Rod Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 13. Global NTD Single Crystal Rod Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 14. Global NTD Single Crystal Rod Sales Quantity (2019-2030) & (Tons)

Figure 15. Global NTD Single Crystal Rod Average Price (2019-2030) & (US\$/Ton)

Figure 16. Global NTD Single Crystal Rod Sales Quantity Market Share by Manufacturer in 2023

Figure 17. Global NTD Single Crystal Rod Consumption Value Market Share by Manufacturer in 2023

Figure 18. Producer Shipments of NTD Single Crystal Rod by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 19. Top 3 NTD Single Crystal Rod Manufacturer (Consumption Value) Market Share in 2023

Figure 20. Top 6 NTD Single Crystal Rod Manufacturer (Consumption Value) Market Share in 2023

Figure 21. Global NTD Single Crystal Rod Sales Quantity Market Share by Region (2019-2030)

Figure 22. Global NTD Single Crystal Rod Consumption Value Market Share by Region (2019-2030)

Figure 23. North America NTD Single Crystal Rod Consumption Value (2019-2030) & (USD Million)

Figure 24. Europe NTD Single Crystal Rod Consumption Value (2019-2030) & (USD Million)

Figure 25. Asia-Pacific NTD Single Crystal Rod Consumption Value (2019-2030) & (USD Million)

Figure 26. South America NTD Single Crystal Rod Consumption Value (2019-2030) & (USD Million)

Figure 27. Middle East & Africa NTD Single Crystal Rod Consumption Value (2019-2030) & (USD Million)

Figure 28. Global NTD Single Crystal Rod Sales Quantity Market Share by Type (2019-2030)

Figure 29. Global NTD Single Crystal Rod Consumption Value Market Share by Type (2019-2030)

Figure 30. Global NTD Single Crystal Rod Average Price by Type (2019-2030) & (US\$/Ton)

Figure 31. Global NTD Single Crystal Rod Sales Quantity Market Share by Application (2019-2030)

Figure 32. Global NTD Single Crystal Rod Consumption Value Market Share by Application (2019-2030)

Figure 33. Global NTD Single Crystal Rod Average Price by Application (2019-2030) & (US\$/Ton)

Figure 34. North America NTD Single Crystal Rod Sales Quantity Market Share by Type (2019-2030)

Figure 35. North America NTD Single Crystal Rod Sales Quantity Market Share by Application (2019-2030)

Figure 36. North America NTD Single Crystal Rod Sales Quantity Market Share by Country (2019-2030)

Figure 37. North America NTD Single Crystal Rod Consumption Value Market Share by Country (2019-2030)

Figure 38. United States NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 39. Canada NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 40. Mexico NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Europe NTD Single Crystal Rod Sales Quantity Market Share by Type (2019-2030)

Figure 42. Europe NTD Single Crystal Rod Sales Quantity Market Share by Application

(2019-2030)

Figure 43. Europe NTD Single Crystal Rod Sales Quantity Market Share by Country (2019-2030)

Figure 44. Europe NTD Single Crystal Rod Consumption Value Market Share by Country (2019-2030)

Figure 45. Germany NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 46. France NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 47. United Kingdom NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. Russia NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 49. Italy NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 50. Asia-Pacific NTD Single Crystal Rod Sales Quantity Market Share by Type (2019-2030)

Figure 51. Asia-Pacific NTD Single Crystal Rod Sales Quantity Market Share by Application (2019-2030)

Figure 52. Asia-Pacific NTD Single Crystal Rod Sales Quantity Market Share by Region (2019-2030)

Figure 53. Asia-Pacific NTD Single Crystal Rod Consumption Value Market Share by Region (2019-2030)

Figure 54. China NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 55. Japan NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 56. Korea NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. India NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. Southeast Asia NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. Australia NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. South America NTD Single Crystal Rod Sales Quantity Market Share by Type (2019-2030)

Figure 61. South America NTD Single Crystal Rod Sales Quantity Market Share by Application (2019-2030)

Figure 62. South America NTD Single Crystal Rod Sales Quantity Market Share by Country (2019-2030)

Figure 63. South America NTD Single Crystal Rod Consumption Value Market Share by Country (2019-2030)

Figure 64. Brazil NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 65. Argentina NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 66. Middle East & Africa NTD Single Crystal Rod Sales Quantity Market Share by Type (2019-2030)

Figure 67. Middle East & Africa NTD Single Crystal Rod Sales Quantity Market Share by Application (2019-2030)

Figure 68. Middle East & Africa NTD Single Crystal Rod Sales Quantity Market Share by Region (2019-2030)

Figure 69. Middle East & Africa NTD Single Crystal Rod Consumption Value Market Share by Region (2019-2030)

Figure 70. Turkey NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 71. Egypt NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 72. Saudi Arabia NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. South Africa NTD Single Crystal Rod Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 74. NTD Single Crystal Rod Market Drivers

Figure 75. NTD Single Crystal Rod Market Restraints

Figure 76. NTD Single Crystal Rod Market Trends

Figure 77. Porters Five Forces Analysis

Figure 78. Manufacturing Cost Structure Analysis of NTD Single Crystal Rod in 2023

Figure 79. Manufacturing Process Analysis of NTD Single Crystal Rod

Figure 80. NTD Single Crystal Rod Industrial Chain

Figure 81. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 82. Direct Channel Pros & Cons

Figure 83. Indirect Channel Pros & Cons

Figure 84. Methodology

Figure 85. Research Process and Data Source

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