

Global Nickel Oxide Thin Film Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Nickel Oxide Thin Film competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. Nickel Oxide Thin Film (NiO thin film) is a transparent p-type semiconductor with a wide bandgap, valued for its stability and optical properties in applications like solar cells, sensors, electrochromic devices, and batteries. It is produced through methods such as sputtering, sol-gel coating, or chemical vapor deposition, starting from nickel-based precursors (e.g., nickel nitrate or acetate) or sputtering targets. The supply chain flows from raw nickel compounds to deposition equipment and processing (including annealing or doping), then into integration with materials like ITO or perovskites, ultimately serving electronics, renewable energy, display, and energy storage markets. The market outputs 4.1 million m² annually with a capacity of 5.5 million m², priced at USD 85-260 per m² depending on deposition method, and sustains a 36% gross margin.

The global Nickel Oxide Thin Film market size was estimated at USD 686.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 7.10% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Nickel Oxide Thin Film market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Nickel Oxide Thin Film market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Nickel Oxide Thin Film market.

Global Nickel Oxide Thin Film Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Kurt J. Lesker
AbleTarget
Jinxing Metals
Kehong Material
Cathay Advanced Materials
ACI Alloys
Testbourne
Materion

Admat
Neyco
Heeger Materials
EdgeTech Industries
Target Materials

Market Segmentation (by Type)

Pure NiO Thin Film
Doped NiO Thin Film

Market Segmentation (by Application)

Automotive
Aerospace
Renewable Energy
Electronics
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments

Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Nickel Oxide Thin Film Market
Overview of the regional outlook of the Nickel Oxide Thin Film Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Nickel Oxide Thin Film Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help

readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Nickel Oxide Thin Film, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth

as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Nickel Oxide Thin Film
- 1.2 Key Market Segments
 - 1.2.1 Nickel Oxide Thin Film Segment by Type
 - 1.2.2 Nickel Oxide Thin Film Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 NICKEL OXIDE THIN FILM MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Nickel Oxide Thin Film Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Nickel Oxide Thin Film Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 NICKEL OXIDE THIN FILM MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Nickel Oxide Thin Film Product Life Cycle
- 3.3 Global Nickel Oxide Thin Film Sales by Manufacturers (2020-2025)
- 3.4 Global Nickel Oxide Thin Film Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Nickel Oxide Thin Film Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Nickel Oxide Thin Film Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Nickel Oxide Thin Film Market Competitive Situation and Trends
 - 3.8.1 Nickel Oxide Thin Film Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Nickel Oxide Thin Film Players Market Share by Revenue
 - 3.8.3 Mergers & Acquisitions, Expansion

4 NICKEL OXIDE THIN FILM INDUSTRY CHAIN ANALYSIS

- 4.1 Nickel Oxide Thin Film Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF NICKEL OXIDE THIN FILM MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Nickel Oxide Thin Film Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Nickel Oxide Thin Film Market
- 5.7 ESG Ratings of Leading Companies

6 NICKEL OXIDE THIN FILM MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Nickel Oxide Thin Film Sales Market Share by Type (2020-2025)
- 6.3 Global Nickel Oxide Thin Film Market Size by Type (2020-2025)
- 6.4 Global Nickel Oxide Thin Film Price by Type (2020-2025)

7 NICKEL OXIDE THIN FILM MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)

- 7.2 Global Nickel Oxide Thin Film Market Sales by Application (2020-2025)
- 7.3 Global Nickel Oxide Thin Film Market Size (M USD) by Application (2020-2025)
- 7.4 Global Nickel Oxide Thin Film Sales Growth Rate by Application (2020-2025)

8 NICKEL OXIDE THIN FILM MARKET SALES BY REGION

- 8.1 Global Nickel Oxide Thin Film Sales by Region
 - 8.1.1 Global Nickel Oxide Thin Film Sales by Region
 - 8.1.2 Global Nickel Oxide Thin Film Sales Market Share by Region
- 8.2 Global Nickel Oxide Thin Film Market Size by Region
 - 8.2.1 Global Nickel Oxide Thin Film Market Size by Region
 - 8.2.2 Global Nickel Oxide Thin Film Market Size by Region
- 8.3 North America
 - 8.3.1 North America Nickel Oxide Thin Film Sales by Country
 - 8.3.2 North America Nickel Oxide Thin Film Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Nickel Oxide Thin Film Sales by Country
 - 8.4.2 Europe Nickel Oxide Thin Film Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Nickel Oxide Thin Film Sales by Region
 - 8.5.2 Asia Pacific Nickel Oxide Thin Film Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Nickel Oxide Thin Film Sales by Country
 - 8.6.2 South America Nickel Oxide Thin Film Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Nickel Oxide Thin Film Sales by Region

8.7.2 Middle East and Africa Nickel Oxide Thin Film Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 NICKEL OXIDE THIN FILM MARKET PRODUCTION BY REGION

9.1 Global Production of Nickel Oxide Thin Film by Region(2020-2025)

9.2 Global Nickel Oxide Thin Film Revenue Market Share by Region (2020-2025)

9.3 Global Nickel Oxide Thin Film Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Nickel Oxide Thin Film Production

9.4.1 North America Nickel Oxide Thin Film Production Growth Rate (2020-2025)

9.4.2 North America Nickel Oxide Thin Film Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Nickel Oxide Thin Film Production

9.5.1 Europe Nickel Oxide Thin Film Production Growth Rate (2020-2025)

9.5.2 Europe Nickel Oxide Thin Film Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Nickel Oxide Thin Film Production (2020-2025)

9.6.1 Japan Nickel Oxide Thin Film Production Growth Rate (2020-2025)

9.6.2 Japan Nickel Oxide Thin Film Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Nickel Oxide Thin Film Production (2020-2025)

9.7.1 China Nickel Oxide Thin Film Production Growth Rate (2020-2025)

9.7.2 China Nickel Oxide Thin Film Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Kurt J. Lesker

10.1.1 Kurt J. Lesker Basic Information

10.1.2 Kurt J. Lesker Nickel Oxide Thin Film Product Overview

10.1.3 Kurt J. Lesker Nickel Oxide Thin Film Product Market Performance

- 10.1.4 Kurt J. Lesker Business Overview
- 10.1.5 Kurt J. Lesker SWOT Analysis
- 10.1.6 Kurt J. Lesker Recent Developments
- 10.2 AbleTarget
 - 10.2.1 AbleTarget Basic Information
 - 10.2.2 AbleTarget Nickel Oxide Thin Film Product Overview
 - 10.2.3 AbleTarget Nickel Oxide Thin Film Product Market Performance
 - 10.2.4 AbleTarget Business Overview
 - 10.2.5 AbleTarget SWOT Analysis
 - 10.2.6 AbleTarget Recent Developments
- 10.3 Jinxing Metals
 - 10.3.1 Jinxing Metals Basic Information
 - 10.3.2 Jinxing Metals Nickel Oxide Thin Film Product Overview
 - 10.3.3 Jinxing Metals Nickel Oxide Thin Film Product Market Performance
 - 10.3.4 Jinxing Metals Business Overview
 - 10.3.5 Jinxing Metals SWOT Analysis
 - 10.3.6 Jinxing Metals Recent Developments
- 10.4 Kehong Material
 - 10.4.1 Kehong Material Basic Information
 - 10.4.2 Kehong Material Nickel Oxide Thin Film Product Overview
 - 10.4.3 Kehong Material Nickel Oxide Thin Film Product Market Performance
 - 10.4.4 Kehong Material Business Overview
 - 10.4.5 Kehong Material Recent Developments
- 10.5 Cathay Advanced Materials
 - 10.5.1 Cathay Advanced Materials Basic Information
 - 10.5.2 Cathay Advanced Materials Nickel Oxide Thin Film Product Overview
 - 10.5.3 Cathay Advanced Materials Nickel Oxide Thin Film Product Market Performance
 - 10.5.4 Cathay Advanced Materials Business Overview
 - 10.5.5 Cathay Advanced Materials Recent Developments
- 10.6 ACI Alloys
 - 10.6.1 ACI Alloys Basic Information
 - 10.6.2 ACI Alloys Nickel Oxide Thin Film Product Overview
 - 10.6.3 ACI Alloys Nickel Oxide Thin Film Product Market Performance
 - 10.6.4 ACI Alloys Business Overview
 - 10.6.5 ACI Alloys Recent Developments
- 10.7 Testbourne
 - 10.7.1 Testbourne Basic Information
 - 10.7.2 Testbourne Nickel Oxide Thin Film Product Overview

- 10.7.3 Testbourne Nickel Oxide Thin Film Product Market Performance
- 10.7.4 Testbourne Business Overview
- 10.7.5 Testbourne Recent Developments
- 10.8 Materion
 - 10.8.1 Materion Basic Information
 - 10.8.2 Materion Nickel Oxide Thin Film Product Overview
 - 10.8.3 Materion Nickel Oxide Thin Film Product Market Performance
 - 10.8.4 Materion Business Overview
 - 10.8.5 Materion Recent Developments
- 10.9 Admat
 - 10.9.1 Admat Basic Information
 - 10.9.2 Admat Nickel Oxide Thin Film Product Overview
 - 10.9.3 Admat Nickel Oxide Thin Film Product Market Performance
 - 10.9.4 Admat Business Overview
 - 10.9.5 Admat Recent Developments
- 10.10 Neyco
 - 10.10.1 Neyco Basic Information
 - 10.10.2 Neyco Nickel Oxide Thin Film Product Overview
 - 10.10.3 Neyco Nickel Oxide Thin Film Product Market Performance
 - 10.10.4 Neyco Business Overview
 - 10.10.5 Neyco Recent Developments
- 10.11 Heeger Materials
 - 10.11.1 Heeger Materials Basic Information
 - 10.11.2 Heeger Materials Nickel Oxide Thin Film Product Overview
 - 10.11.3 Heeger Materials Nickel Oxide Thin Film Product Market Performance
 - 10.11.4 Heeger Materials Business Overview
 - 10.11.5 Heeger Materials Recent Developments
- 10.12 EdgeTech Industries
 - 10.12.1 EdgeTech Industries Basic Information
 - 10.12.2 EdgeTech Industries Nickel Oxide Thin Film Product Overview
 - 10.12.3 EdgeTech Industries Nickel Oxide Thin Film Product Market Performance
 - 10.12.4 EdgeTech Industries Business Overview
 - 10.12.5 EdgeTech Industries Recent Developments
- 10.13 Target Materials
 - 10.13.1 Target Materials Basic Information
 - 10.13.2 Target Materials Nickel Oxide Thin Film Product Overview
 - 10.13.3 Target Materials Nickel Oxide Thin Film Product Market Performance
 - 10.13.4 Target Materials Business Overview
 - 10.13.5 Target Materials Recent Developments

11 NICKEL OXIDE THIN FILM MARKET FORECAST BY REGION

11.1 Global Nickel Oxide Thin Film Market Size Forecast

11.2 Global Nickel Oxide Thin Film Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Nickel Oxide Thin Film Market Size Forecast by Country

11.2.3 Asia Pacific Nickel Oxide Thin Film Market Size Forecast by Region

11.2.4 South America Nickel Oxide Thin Film Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Nickel Oxide Thin Film by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Nickel Oxide Thin Film Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Nickel Oxide Thin Film by Type (2026-2035)

12.1.2 Global Nickel Oxide Thin Film Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Nickel Oxide Thin Film by Type (2026-2035)

12.2 Global Nickel Oxide Thin Film Market Forecast by Application (2026-2035)

12.2.1 Global Nickel Oxide Thin Film Sales (K MT) Forecast by Application

12.2.2 Global Nickel Oxide Thin Film Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Nickel Oxide Thin Film Market Size by Type (M USD)

Table 4. Global Nickel Oxide Thin Film Market Size by Application

Table 5. Nickel Oxide Thin Film Market Size Comparison by Region (M USD)

Table 6. Global Nickel Oxide Thin Film Sales (K MT) by Manufacturers (2020-2025)

Table 7. Global Nickel Oxide Thin Film Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Nickel Oxide Thin Film Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Nickel Oxide Thin Film Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Nickel Oxide Thin Film as of 2025)

Table 11. Global Market Nickel Oxide Thin Film Average Price (USD/KG) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Nickel Oxide Thin Film Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Nickel Oxide Thin Film Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Nickel Oxide Thin Film Sales by Type (K MT)

Table 27. Global Nickel Oxide Thin Film Market Size by Type (M USD)

Table 28. Global Nickel Oxide Thin Film Sales (K MT) by Type (2020-2025)

Table 29. Global Nickel Oxide Thin Film Sales Market Share by Type (2020-2025)

- Table 30. Global Nickel Oxide Thin Film Market Size (M USD) by Type (2020-2025)
- Table 31. Global Nickel Oxide Thin Film Market Share by Type (2020-2025)
- Table 32. Global Nickel Oxide Thin Film Price (USD/KG) by Type (2020-2025)
- Table 33. Global Nickel Oxide Thin Film Sales (K MT) by Application
- Table 34. Global Nickel Oxide Thin Film Market Size by Application
- Table 35. Global Nickel Oxide Thin Film Sales by Application (2020-2025) & (K MT)
- Table 36. Global Nickel Oxide Thin Film Sales Market Share by Application (2020-2025)
- Table 37. Global Nickel Oxide Thin Film Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Nickel Oxide Thin Film Market Share by Application (2020-2025)
- Table 39. Global Nickel Oxide Thin Film Sales Growth Rate by Application (2020-2025)
- Table 40. Global Nickel Oxide Thin Film Sales by Region (2020-2025) & (K MT)
- Table 41. Global Nickel Oxide Thin Film Sales Market Share by Region (2020-2025)
- Table 42. Global Nickel Oxide Thin Film Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Nickel Oxide Thin Film Market Size by Region (2020-2025)
- Table 44. North America Nickel Oxide Thin Film Sales by Country (2020-2025) & (K MT)
- Table 45. North America Nickel Oxide Thin Film Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Nickel Oxide Thin Film Sales by Country (2020-2025) & (K MT)
- Table 47. Europe Nickel Oxide Thin Film Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Nickel Oxide Thin Film Sales by Region (2020-2025) & (K MT)
- Table 49. Asia Pacific Nickel Oxide Thin Film Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Nickel Oxide Thin Film Sales by Country (2020-2025) & (K MT)
- Table 51. South America Nickel Oxide Thin Film Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Nickel Oxide Thin Film Sales by Region (2020-2025) & (K MT)
- Table 53. Middle East and Africa Nickel Oxide Thin Film Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Nickel Oxide Thin Film Production (K MT) by Region(2020-2025)
- Table 55. Global Nickel Oxide Thin Film Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global Nickel Oxide Thin Film Revenue Market Share by Region (2020-2025)
- Table 57. Global Nickel Oxide Thin Film Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 58. North America Nickel Oxide Thin Film Production (K MT), Revenue (US\$

Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 59. Europe Nickel Oxide Thin Film Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 60. Japan Nickel Oxide Thin Film Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. China Nickel Oxide Thin Film Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 62. Kurt J. Lesker Basic Information

Table 63. Kurt J. Lesker Nickel Oxide Thin Film Product Overview

Table 64. Kurt J. Lesker Nickel Oxide Thin Film Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 65. Kurt J. Lesker Business Overview

Table 66. Kurt J. Lesker SWOT Analysis

Table 67. Kurt J. Lesker Recent Developments

Table 68. AbleTarget Basic Information

Table 69. AbleTarget Nickel Oxide Thin Film Product Overview

Table 70. AbleTarget Nickel Oxide Thin Film Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. AbleTarget Business Overview

Table 72. AbleTarget SWOT Analysis

Table 73. AbleTarget Recent Developments

Table 74. Jinxing Metals Basic Information

Table 75. Jinxing Metals Nickel Oxide Thin Film Product Overview

Table 76. Jinxing Metals Nickel Oxide Thin Film Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 77. Jinxing Metals Business Overview

Table 78. Jinxing Metals SWOT Analysis

Table 79. Jinxing Metals Recent Developments

Table 80. Kehong Material Basic Information

Table 81. Kehong Material Nickel Oxide Thin Film Product Overview

Table 82. Kehong Material Nickel Oxide Thin Film Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 83. Kehong Material Business Overview

Table 84. Kehong Material Recent Developments

Table 85. Cathay Advanced Materials Basic Information

Table 86. Cathay Advanced Materials Nickel Oxide Thin Film Product Overview

Table 87. Cathay Advanced Materials Nickel Oxide Thin Film Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 88. Cathay Advanced Materials Business Overview

- Table 89. Cathay Advanced Materials Recent Developments
- Table 90. ACI Alloys Basic Information
- Table 91. ACI Alloys Nickel Oxide Thin Film Product Overview
- Table 92. ACI Alloys Nickel Oxide Thin Film Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 93. ACI Alloys Business Overview
- Table 94. ACI Alloys Recent Developments
- Table 95. Testbourne Basic Information
- Table 96. Testbourne Nickel Oxide Thin Film Product Overview
- Table 97. Testbourne Nickel Oxide Thin Film Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 98. Testbourne Business Overview
- Table 99. Testbourne Recent Developments
- Table 100. Materion Basic Information
- Table 101. Materion Nickel Oxide Thin Film Product Overview
- Table 102. Materion Nickel Oxide Thin Film Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 103. Materion Business Overview
- Table 104. Materion Recent Developments
- Table 105. Admat Basic Information
- Table 106. Admat Nickel Oxide Thin Film Product Overview
- Table 107. Admat Nickel Oxide Thin Film Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 108. Admat Business Overview
- Table 109. Admat Recent Developments
- Table 110. Neyco Basic Information
- Table 111. Neyco Nickel Oxide Thin Film Product Overview
- Table 112. Neyco Nickel Oxide Thin Film Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 113. Neyco Business Overview
- Table 114. Neyco Recent Developments
- Table 115. Heeger Materials Basic Information
- Table 116. Heeger Materials Nickel Oxide Thin Film Product Overview
- Table 117. Heeger Materials Nickel Oxide Thin Film Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 118. Heeger Materials Business Overview
- Table 119. Heeger Materials Recent Developments
- Table 120. EdgeTech Industries Basic Information
- Table 121. EdgeTech Industries Nickel Oxide Thin Film Product Overview

Table 122. EdgeTech Industries Nickel Oxide Thin Film Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 123. EdgeTech Industries Business Overview

Table 124. EdgeTech Industries Recent Developments

Table 125. Target Materials Basic Information

Table 126. Target Materials Nickel Oxide Thin Film Product Overview

Table 127. Target Materials Nickel Oxide Thin Film Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 128. Target Materials Business Overview

Table 129. Target Materials Recent Developments

Table 130. Global Nickel Oxide Thin Film Sales Forecast by Region (2026-2035) & (K MT)

Table 131. Global Nickel Oxide Thin Film Market Size Forecast by Region (2026-2035) & (M USD)

Table 132. North America Nickel Oxide Thin Film Sales Forecast by Country (2026-2035) & (K MT)

Table 133. North America Nickel Oxide Thin Film Market Size Forecast by Country (2026-2035) & (M USD)

Table 134. Europe Nickel Oxide Thin Film Sales Forecast by Country (2026-2035) & (K MT)

Table 135. Europe Nickel Oxide Thin Film Market Size Forecast by Country (2026-2035) & (M USD)

Table 136. Asia Pacific Nickel Oxide Thin Film Sales Forecast by Region (2026-2035) & (K MT)

Table 137. Asia Pacific Nickel Oxide Thin Film Market Size Forecast by Region (2026-2035) & (M USD)

Table 138. South America Nickel Oxide Thin Film Sales Forecast by Country (2026-2035) & (K MT)

Table 139. South America Nickel Oxide Thin Film Market Size Forecast by Country (2026-2035) & (M USD)

Table 140. Middle East and Africa Nickel Oxide Thin Film Sales Forecast by Country (2026-2035) & (Units)

Table 141. Middle East and Africa Nickel Oxide Thin Film Market Size Forecast by Country (2026-2035) & (M USD)

Table 142. Global Nickel Oxide Thin Film Sales Forecast by Type (2026-2035) & (K MT)

Table 143. Global Nickel Oxide Thin Film Market Size Forecast by Type (2026-2035) & (M USD)

Table 144. Global Nickel Oxide Thin Film Price Forecast by Type (2026-2035) & (USD/KG)

Table 145. Global Nickel Oxide Thin Film Sales (K MT) Forecast by Application (2026-2035)

Table 146. Global Nickel Oxide Thin Film Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Nickel Oxide Thin Film
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Nickel Oxide Thin Film Market Size (M USD), 2025-2035
- Figure 5. Global Nickel Oxide Thin Film Market Size (M USD) (2020-2035)
- Figure 6. Global Nickel Oxide Thin Film Sales (K MT) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Nickel Oxide Thin Film Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Nickel Oxide Thin Film Product Life Cycle
- Figure 13. Nickel Oxide Thin Film Sales Share by Manufacturers in 2025
- Figure 14. Global Nickel Oxide Thin Film Revenue Share by Manufacturers in 2025
- Figure 15. Nickel Oxide Thin Film Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Nickel Oxide Thin Film Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Nickel Oxide Thin Film Revenue in 2025
- Figure 18. Industry Chain Map of Nickel Oxide Thin Film
- Figure 19. Global Nickel Oxide Thin Film Market PEST Analysis
- Figure 20. Global Nickel Oxide Thin Film Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Nickel Oxide Thin Film Market Share by Type
- Figure 27. Sales Market Share of Nickel Oxide Thin Film by Type (2020-2025)
- Figure 28. Sales Market Share of Nickel Oxide Thin Film by Type in 2025
- Figure 29. Market Share of Nickel Oxide Thin Film by Type (2020-2025)
- Figure 30. Market Share of Nickel Oxide Thin Film by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Nickel Oxide Thin Film Market Share by Application

- Figure 33. Global Nickel Oxide Thin Film Sales Market Share by Application (2020-2025)
- Figure 34. Global Nickel Oxide Thin Film Sales Market Share by Application in 2025
- Figure 35. Global Nickel Oxide Thin Film Market Share by Application (2020-2025)
- Figure 36. Global Nickel Oxide Thin Film Market Share by Application in 2025
- Figure 37. Global Nickel Oxide Thin Film Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Nickel Oxide Thin Film Sales Market Share by Region (2020-2025)
- Figure 39. Global Nickel Oxide Thin Film Market Size by Region (2020-2025)
- Figure 40. North America Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)
- Figure 41. North America Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)
- Figure 42. North America Nickel Oxide Thin Film Sales Market Share by Country in 2024
- Figure 43. North America Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Nickel Oxide Thin Film Market Size by Country in 2024
- Figure 45. U.S. Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)
- Figure 46. U.S. Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Nickel Oxide Thin Film Sales (K MT) and Growth Rate (2020-2025)
- Figure 48. Canada Nickel Oxide Thin Film Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Nickel Oxide Thin Film Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Nickel Oxide Thin Film Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)
- Figure 52. Europe Nickel Oxide Thin Film Sales Market Share by Country in 2024
- Figure 53. Europe Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 54. Europe Nickel Oxide Thin Film Market Size by Country in 2024
- Figure 55. Germany Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)
- Figure 56. Germany Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 57. France Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)
- Figure 58. France Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 59. U.K. Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Nickel Oxide Thin Film Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Nickel Oxide Thin Film Sales Market Share by Region in 2024

Figure 67. Asia Pacific Nickel Oxide Thin Film Market Size by Region in 2024

Figure 68. China Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Nickel Oxide Thin Film Sales and Growth Rate (K MT)

Figure 79. South America Nickel Oxide Thin Film Sales Market Share by Country in 2024

Figure 80. South America Nickel Oxide Thin Film Market Size and Growth Rate (M USD)

Figure 81. South America Nickel Oxide Thin Film Market Size by Country in 2024

Figure 82. Brazil Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Nickel Oxide Thin Film Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Nickel Oxide Thin Film Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Nickel Oxide Thin Film Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Nickel Oxide Thin Film Market Size by Region in 2024

Figure 92. Saudi Arabia Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Nickel Oxide Thin Film Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Nickel Oxide Thin Film Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Nickel Oxide Thin Film Production Market Share by Region (2020-2025)

Figure 103. North America Nickel Oxide Thin Film Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Nickel Oxide Thin Film Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Nickel Oxide Thin Film Production (K MT) Growth Rate (2020-2025)

Figure 106. China Nickel Oxide Thin Film Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Nickel Oxide Thin Film Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global Nickel Oxide Thin Film Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Nickel Oxide Thin Film Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Nickel Oxide Thin Film Market Share Forecast by Type (2026-2035)

Figure 111. Global Nickel Oxide Thin Film Sales Forecast by Application (2026-2035)

Figure 112. Global Nickel Oxide Thin Film Market Share Forecast by Application (2026-2035)

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