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Global Nickel Oxide Thin Film Market Growth 2026-2032

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Abstracts

The global Nickel Oxide Thin Film market size is predicted to grow from US$ 716 million in 2025 to US$ 1167 million in 2032; it is expected to grow at a CAGR of 7.4% from 2026 to 2032.

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 m? annually with a capacity of 5.5 million m?, priced at USD 85–260 per m? depending on deposition method, and sustains a 36% gross margin.

United States market for Nickel Oxide Thin Film is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Nickel Oxide Thin Film is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Nickel Oxide Thin Film is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Nickel Oxide Thin Film players cover Kurt J. Lesker, AbleTarget, Jinxing

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Metals, Kehong Material, Cathay Advanced Materials, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Nickel Oxide Thin Film Industry Forecast” looks at past sales and reviews total world Nickel Oxide Thin Film sales in 2025, providing a comprehensive analysis by region and market sector of projected Nickel Oxide Thin Film sales for 2026 through 2032. With Nickel Oxide Thin Film sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Nickel Oxide Thin Film industry.

This Insight Report provides a comprehensive analysis of the global Nickel Oxide Thin Film landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Nickel Oxide Thin Film portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Nickel Oxide Thin Film market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nickel Oxide Thin Film and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Nickel Oxide Thin Film.

This report presents a comprehensive overview, market shares, and growth opportunities of Nickel Oxide Thin Film market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Pure NiO Thin Film

Doped NiO Thin Film

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Segmentation by Application:

- Automotive
- Aerospace
- Renewable Energy
- Electronics
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia

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Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Kurt J. Lesker

AbleTarget

Jinxing Metals

Kehong Material

Cathay Advanced Materials

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ACI Alloys

Testbourne

Materion

Admat

Neyco

Heeger Materials

EdgeTech Industries

Target Materials

Key Questions Addressed in this Report

What is the 10-year outlook for the global Nickel Oxide Thin Film market?

What factors are driving Nickel Oxide Thin Film market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Nickel Oxide Thin Film market opportunities vary by end market size?

How does Nickel Oxide Thin Film break out by Type, by Application?

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