

Global 5N FPD Aluminum Sputtering Targets Market Growth 2026-2032

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Abstracts

The global 5N FPD Aluminum Sputtering Targets market size is predicted to grow from US\$ 98 million in 2025 to US\$ 126 million in 2032; it is expected to grow at a CAGR of 2.9% from 2026 to 2032.

5N FPD Aluminum Sputtering Targets refer to aluminum-based sputtering targets made from high-purity aluminum with a purity of 99.999% as the core raw material through melting and refining, ingot casting, forging or rolling, heat treatment, precision machining, bonding, cleaning, and inspection processes, and specifically used in the thin-film deposition process during LCD and OLED panel manufacturing. This product is mainly used in LCD and OLED panels for forming metal conductive layers, reflective layers, electrode layers, wiring layers, or related functional films. It requires high purity, controlled grain structure, uniform composition, low particle generation, low defect levels, stable sputtering performance, and strong batch-to-batch consistency, making it one of the key materials in vacuum coating processes for display panels. In 2025, global production of 5N FPD Aluminum Sputtering Targets reached 1,936.63 tons, with an average selling price of USD 51.51 per kilogram.

5N FPD Aluminum Sputtering Targets are key vacuum coating materials used in LCD and OLED panel manufacturing. With a purity of 99.999%, they are mainly used to form metal conductive layers, reflective layers, electrode layers, wiring layers, and related functional films. Demand for these products is closely related to LCD and OLED panel input area, production line utilization, panel size mix, process stability requirements, and panel makers' supply chain strategies. LCD applications are mainly characterized by mature mass production, large-size panel demand, and cost control, while OLED applications place higher emphasis on low particle generation, low defect levels, sputtering stability, and batch-to-batch consistency.

In terms of product structure, 5N FPD Aluminum Sputtering Targets can be classified by end panel technology into targets for LCD and targets for OLED, and by target structure into planar aluminum targets and rotary aluminum targets. Planar aluminum targets are more widely used in PVD coating equipment for LCD and OLED panels, as they are compatible with mature processes and various types of coating equipment. Rotary aluminum targets offer higher material utilization and are mainly used in certain large-area or continuous coating applications. By compatible display line generation, they can be divided into targets for G6 and below lines, G7?G8.6 lines, and G10 and above lines. G7?G8.6 and G10 and above lines mainly support large-size LCD demand, while G6 and below lines and certain G8.6 lines are more closely related to OLED and small- to medium-size panel demand.

From a regional perspective, Mainland China is the most concentrated demand market for 5N aluminum sputtering targets used in LCD panels, driven by LCD capacity concentration, large-scale operation of high-generation lines, and the improvement of local supply chain capabilities. South Korea, Japan, and Taiwan still have strong influence in OLED panel manufacturing, material qualification, and high-stability processes. On the supply side, the market features the coexistence of international material companies and Chinese local target suppliers. International suppliers still have advantages in high-purity aluminum raw material control, grain structure stability, batch consistency, and high-end customer qualification, while Chinese companies continue to strengthen their competitiveness in LCD standard products, local delivery, bonding services, cost control, and response speed.

In terms of the industry chain, the upstream segment mainly includes 5N high-purity aluminum raw materials, backing plate materials, bonding materials, precision machining consumables, and cleaning and inspection equipment. The midstream segment covers target blank preparation, forging or rolling, heat treatment, grain structure control, precision machining, bonding, cleaning, particle inspection, and quality verification. The downstream segment consists of PVD coating lines at LCD and OLED panel makers. In the cost structure, high-purity aluminum raw materials account for a relatively high share, while backing plates, bonding, precision machining, cleaning and inspection, yield loss, and customer qualification expenses are also important cost items. Manufacturing generally combines batch material preparation with order-based precision machining. A typical single production line has annual capacity of 80 to 200 tons, while mature lines with automated machining, bonding, and inspection capabilities can reach 200 to 300 tons per year. Industry gross margins are generally 25% to 40%. LCD standard products usually have lower gross margins due to price competition,

while OLED products have relatively higher margins because of stricter qualification and stability requirements.

Overall, the 5N FPD Aluminum Sputtering Target industry is shifting from simple material supply competition toward integrated capability competition involving high-purity raw material control, target microstructure control, bonding services, customer qualification, and localized delivery. In the LCD segment, the core competitive factors are cost control, stable delivery, large-volume consistency, and improved material utilization. In the OLED segment, the core competitive factors are low particles, low defects, stable sputtering, and long-term customer qualification. Future industry growth will mainly come from rising OLED penetration, LCD replacement demand, panel makers' supply chain localization, and increasing demand for high-stability materials, while price pressure in LCD standard products and customer cost-reduction requirements will continue to limit profitability upside.

LP Information, Inc. (LPI)'s newest research report, the "5N FPD Aluminum Sputtering Targets Industry Forecast" looks at past sales and reviews total world 5N FPD Aluminum Sputtering Targets sales in 2025, providing a comprehensive analysis by region and market sector of projected 5N FPD Aluminum Sputtering Targets sales for 2026 through 2032. With 5N FPD Aluminum Sputtering Targets sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 5N FPD Aluminum Sputtering Targets industry.

This Insight Report provides a comprehensive analysis of the global 5N FPD Aluminum Sputtering Targets 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 5N FPD Aluminum Sputtering Targets portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 5N FPD Aluminum Sputtering Targets market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 5N FPD Aluminum Sputtering Targets 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 5N FPD Aluminum Sputtering Targets.

This report presents a comprehensive overview, market shares, and growth opportunities of 5N FPD Aluminum Sputtering Targets market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Planar Aluminum Target

Rotating Aluminum Target

Segmentation by Compatible Display Line Generation:

for G6 and Below Lines

for G7?G8.6 Lines

for G10 and Above Lines

Segmentation by Sales Channel:

Direct Sales

Distribution

Segmentation by Application:

LCD

OLED

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

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.

Sumitomo Chemical

Konfoong Materials International

Linde

YMC

Comet

Omat Advanced Materials

Advantec

Umicore

Thintech Materials Technology

Fujian Acetron New Materials

Angstrom Sciences

Key Questions Addressed in this Report

What is the 10-year outlook for the global 5N FPD Aluminum Sputtering Targets market?

What factors are driving 5N FPD Aluminum Sputtering Targets market growth, globally

and by region?

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

How do 5N FPD Aluminum Sputtering Targets market opportunities vary by end market size?

How does 5N FPD Aluminum Sputtering Targets break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global 5N FPD Aluminum Sputtering Targets Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for 5N FPD Aluminum Sputtering Targets by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for 5N FPD Aluminum Sputtering Targets by Country/Region, 2021, 2025 & 2032

2.2 5N FPD Aluminum Sputtering Targets Segment by Type

- 2.2.1 Planar Aluminum Target
- 2.2.2 Rotating Aluminum Target
- 2.2.3 5N FPD Aluminum Sputtering Targets Sales by Type
 - 2.2.3.1 Global 5N FPD Aluminum Sputtering Targets Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global 5N FPD Aluminum Sputtering Targets Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global 5N FPD Aluminum Sputtering Targets Sale Price by Type (2021-2026)

2.3 5N FPD Aluminum Sputtering Targets Segment by Compatible Display Line Generation

- 2.3.1 for G6 and Below Lines
- 2.3.2 for G7?G8.6 Lines
- 2.3.3 for G10 and Above Lines
- 2.3.4 5N FPD Aluminum Sputtering Targets Sales by Compatible Display Line Generation
 - 2.3.4.1 Global 5N FPD Aluminum Sputtering Targets Sales Market Share by Compatible Display Line Generation (2021-2026)

2.3.4.2 Global 5N FPD Aluminum Sputtering Targets Revenue and Market Share by Compatible Display Line Generation (2021-2026)

2.3.4.3 Global 5N FPD Aluminum Sputtering Targets Sale Price by Compatible Display Line Generation (2021-2026)

2.4 5N FPD Aluminum Sputtering Targets Segment by Sales Channel

2.4.1 Direct Sales

2.4.2 Distribution

2.4.3 5N FPD Aluminum Sputtering Targets Sales by Sales Channel

2.4.3.1 Global 5N FPD Aluminum Sputtering Targets Sales Market Share by Sales Channel (2021-2026)

2.4.3.2 Global 5N FPD Aluminum Sputtering Targets Revenue and Market Share by Sales Channel (2021-2026)

2.4.3.3 Global 5N FPD Aluminum Sputtering Targets Sale Price by Sales Channel (2021-2026)

2.5 5N FPD Aluminum Sputtering Targets Segment by Application

2.5.1 LCD

2.5.2 OLED

2.5.3 5N FPD Aluminum Sputtering Targets Sales by Application

2.5.3.1 Global 5N FPD Aluminum Sputtering Targets Sale Market Share by Application (2021-2026)

2.5.3.2 Global 5N FPD Aluminum Sputtering Targets Revenue and Market Share by Application (2021-2026)

2.5.3.3 Global 5N FPD Aluminum Sputtering Targets Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global 5N FPD Aluminum Sputtering Targets Breakdown Data by Company

3.1.1 Global 5N FPD Aluminum Sputtering Targets Annual Sales by Company (2021-2026)

3.1.2 Global 5N FPD Aluminum Sputtering Targets Sales Market Share by Company (2021-2026)

3.2 Global 5N FPD Aluminum Sputtering Targets Annual Revenue by Company (2021-2026)

3.2.1 Global 5N FPD Aluminum Sputtering Targets Revenue by Company (2021-2026)

3.2.2 Global 5N FPD Aluminum Sputtering Targets Revenue Market Share by Company (2021-2026)

3.3 Global 5N FPD Aluminum Sputtering Targets Sale Price by Company

3.4 Key Manufacturers 5N FPD Aluminum Sputtering Targets Producing Area

Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers 5N FPD Aluminum Sputtering Targets Product Location

Distribution

3.4.2 Players 5N FPD Aluminum Sputtering Targets Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR 5N FPD ALUMINUM SPUTTERING TARGETS BY GEOGRAPHIC REGION

4.1 World Historic 5N FPD Aluminum Sputtering Targets Market Size by Geographic Region (2021-2026)

4.1.1 Global 5N FPD Aluminum Sputtering Targets Annual Sales by Geographic Region (2021-2026)

4.1.2 Global 5N FPD Aluminum Sputtering Targets Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic 5N FPD Aluminum Sputtering Targets Market Size by Country/Region (2021-2026)

4.2.1 Global 5N FPD Aluminum Sputtering Targets Annual Sales by Country/Region (2021-2026)

4.2.2 Global 5N FPD Aluminum Sputtering Targets Annual Revenue by Country/Region (2021-2026)

4.3 Americas 5N FPD Aluminum Sputtering Targets Sales Growth

4.4 APAC 5N FPD Aluminum Sputtering Targets Sales Growth

4.5 Europe 5N FPD Aluminum Sputtering Targets Sales Growth

4.6 Middle East & Africa 5N FPD Aluminum Sputtering Targets Sales Growth

5 AMERICAS

5.1 Americas 5N FPD Aluminum Sputtering Targets Sales by Country

5.1.1 Americas 5N FPD Aluminum Sputtering Targets Sales by Country (2021-2026)

5.1.2 Americas 5N FPD Aluminum Sputtering Targets Revenue by Country (2021-2026)

5.2 Americas 5N FPD Aluminum Sputtering Targets Sales by Type (2021-2026)

5.3 Americas 5N FPD Aluminum Sputtering Targets Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC 5N FPD Aluminum Sputtering Targets Sales by Region

6.1.1 APAC 5N FPD Aluminum Sputtering Targets Sales by Region (2021-2026)

6.1.2 APAC 5N FPD Aluminum Sputtering Targets Revenue by Region (2021-2026)

6.2 APAC 5N FPD Aluminum Sputtering Targets Sales by Type (2021-2026)

6.3 APAC 5N FPD Aluminum Sputtering Targets Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe 5N FPD Aluminum Sputtering Targets by Country

7.1.1 Europe 5N FPD Aluminum Sputtering Targets Sales by Country (2021-2026)

7.1.2 Europe 5N FPD Aluminum Sputtering Targets Revenue by Country (2021-2026)

7.2 Europe 5N FPD Aluminum Sputtering Targets Sales by Type (2021-2026)

7.3 Europe 5N FPD Aluminum Sputtering Targets Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa 5N FPD Aluminum Sputtering Targets by Country

8.1.1 Middle East & Africa 5N FPD Aluminum Sputtering Targets Sales by Country (2021-2026)

8.1.2 Middle East & Africa 5N FPD Aluminum Sputtering Targets Revenue by Country (2021-2026)

8.2 Middle East & Africa 5N FPD Aluminum Sputtering Targets Sales by Type
(2021-2026)

8.3 Middle East & Africa 5N FPD Aluminum Sputtering Targets Sales by Application
(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of 5N FPD Aluminum Sputtering Targets

10.3 Manufacturing Process Analysis of 5N FPD Aluminum Sputtering Targets

10.4 Industry Chain Structure of 5N FPD Aluminum Sputtering Targets

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 5N FPD Aluminum Sputtering Targets Distributors

11.3 5N FPD Aluminum Sputtering Targets Customer

12 WORLD FORECAST REVIEW FOR 5N FPD ALUMINUM SPUTTERING TARGETS BY GEOGRAPHIC REGION

12.1 Global 5N FPD Aluminum Sputtering Targets Market Size Forecast by Region

12.1.1 Global 5N FPD Aluminum Sputtering Targets Forecast by Region (2027-2032)

12.1.2 Global 5N FPD Aluminum Sputtering Targets Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global 5N FPD Aluminum Sputtering Targets Forecast by Type (2027-2032)
- 12.7 Global 5N FPD Aluminum Sputtering Targets Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Sumitomo Chemical

- 13.1.1 Sumitomo Chemical Company Information
- 13.1.2 Sumitomo Chemical 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications
- 13.1.3 Sumitomo Chemical 5N FPD Aluminum Sputtering Targets Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 Sumitomo Chemical Main Business Overview
- 13.1.5 Sumitomo Chemical Latest Developments

13.2 Konfoong Materials International

- 13.2.1 Konfoong Materials International Company Information
- 13.2.2 Konfoong Materials International 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications
- 13.2.3 Konfoong Materials International 5N FPD Aluminum Sputtering Targets Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Konfoong Materials International Main Business Overview
- 13.2.5 Konfoong Materials International Latest Developments

13.3 Linde

- 13.3.1 Linde Company Information
- 13.3.2 Linde 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications
- 13.3.3 Linde 5N FPD Aluminum Sputtering Targets Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Linde Main Business Overview
- 13.3.5 Linde Latest Developments

13.4 YMC

- 13.4.1 YMC Company Information
- 13.4.2 YMC 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications
- 13.4.3 YMC 5N FPD Aluminum Sputtering Targets Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.4.4 YMC Main Business Overview

- 13.4.5 YMC Latest Developments
- 13.5 Comet
 - 13.5.1 Comet Company Information
 - 13.5.2 Comet 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications
 - 13.5.3 Comet 5N FPD Aluminum Sputtering Targets Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Comet Main Business Overview
 - 13.5.5 Comet Latest Developments
- 13.6 Omat Advanced Materials
 - 13.6.1 Omat Advanced Materials Company Information
 - 13.6.2 Omat Advanced Materials 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications
 - 13.6.3 Omat Advanced Materials 5N FPD Aluminum Sputtering Targets Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Omat Advanced Materials Main Business Overview
 - 13.6.5 Omat Advanced Materials Latest Developments
- 13.7 Advantec
 - 13.7.1 Advantec Company Information
 - 13.7.2 Advantec 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications
 - 13.7.3 Advantec 5N FPD Aluminum Sputtering Targets Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Advantec Main Business Overview
 - 13.7.5 Advantec Latest Developments
- 13.8 Umicore
 - 13.8.1 Umicore Company Information
 - 13.8.2 Umicore 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications
 - 13.8.3 Umicore 5N FPD Aluminum Sputtering Targets Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Umicore Main Business Overview
 - 13.8.5 Umicore Latest Developments
- 13.9 Thintech Materials Technology
 - 13.9.1 Thintech Materials Technology Company Information
 - 13.9.2 Thintech Materials Technology 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications
 - 13.9.3 Thintech Materials Technology 5N FPD Aluminum Sputtering Targets Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.9.4 Thintech Materials Technology Main Business Overview
- 13.9.5 Thintech Materials Technology Latest Developments
- 13.10 Fujian Acetron New Materials
 - 13.10.1 Fujian Acetron New Materials Company Information
 - 13.10.2 Fujian Acetron New Materials 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications
 - 13.10.3 Fujian Acetron New Materials 5N FPD Aluminum Sputtering Targets Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Fujian Acetron New Materials Main Business Overview
 - 13.10.5 Fujian Acetron New Materials Latest Developments
- 13.11 Angstrom Sciences
 - 13.11.1 Angstrom Sciences Company Information
 - 13.11.2 Angstrom Sciences 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications
 - 13.11.3 Angstrom Sciences 5N FPD Aluminum Sputtering Targets Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Angstrom Sciences Main Business Overview
 - 13.11.5 Angstrom Sciences Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. 5N FPD Aluminum Sputtering Targets Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. 5N FPD Aluminum Sputtering Targets Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Planar Aluminum Target

Table 4. Major Players of Rotating Aluminum Target

Table 5. Global 5N FPD Aluminum Sputtering Targets Sales by Type (2021-2026) & (tons)

Table 6. Global 5N FPD Aluminum Sputtering Targets Sales Market Share by Type (2021-2026)

Table 7. Global 5N FPD Aluminum Sputtering Targets Revenue by Type (2021-2026) & (\$ million)

Table 8. Global 5N FPD Aluminum Sputtering Targets Revenue Market Share by Type (2021-2026)

Table 9. Global 5N FPD Aluminum Sputtering Targets Sale Price by Type (2021-2026) & (US\$/Kg)

Table 10. Major Players of for G6 and Below Lines

Table 11. Major Players of for G7?G8.6 Lines

Table 12. Major Players of for G10 and Above Lines

Table 13. Global 5N FPD Aluminum Sputtering Targets Sales by Compatible Display Line Generation (2021-2026) & (tons)

Table 14. Global 5N FPD Aluminum Sputtering Targets Sales Market Share by Compatible Display Line Generation (2021-2026)

Table 15. Global 5N FPD Aluminum Sputtering Targets Revenue by Compatible Display Line Generation (2021-2026) & (\$ million)

Table 16. Global 5N FPD Aluminum Sputtering Targets Revenue Market Share by Compatible Display Line Generation (2021-2026)

Table 17. Global 5N FPD Aluminum Sputtering Targets Sale Price by Compatible Display Line Generation (2021-2026) & (US\$/Kg)

Table 18. Major Players of Direct Sales

Table 19. Major Players of Distribution

Table 20. Global 5N FPD Aluminum Sputtering Targets Sales by Sales Channel (2021-2026) & (tons)

Table 21. Global 5N FPD Aluminum Sputtering Targets Sales Market Share by Sales Channel (2021-2026)

Table 22. Global 5N FPD Aluminum Sputtering Targets Revenue by Sales Channel (2021-2026) & (\$ million)

Table 23. Global 5N FPD Aluminum Sputtering Targets Revenue Market Share by Sales Channel (2021-2026)

Table 24. Global 5N FPD Aluminum Sputtering Targets Sale Price by Sales Channel (2021-2026) & (US\$/Kg)

Table 25. Global 5N FPD Aluminum Sputtering Targets Sale by Application (2021-2026) & (tons)

Table 26. Global 5N FPD Aluminum Sputtering Targets Sale Market Share by Application (2021-2026)

Table 27. Global 5N FPD Aluminum Sputtering Targets Revenue by Application (2021-2026) & (\$ million)

Table 28. Global 5N FPD Aluminum Sputtering Targets Revenue Market Share by Application (2021-2026)

Table 29. Global 5N FPD Aluminum Sputtering Targets Sale Price by Application (2021-2026) & (US\$/Kg)

Table 30. Global 5N FPD Aluminum Sputtering Targets Sales by Company (2021-2026) & (tons)

Table 31. Global 5N FPD Aluminum Sputtering Targets Sales Market Share by Company (2021-2026)

Table 32. Global 5N FPD Aluminum Sputtering Targets Revenue by Company (2021-2026) & (\$ millions)

Table 33. Global 5N FPD Aluminum Sputtering Targets Revenue Market Share by Company (2021-2026)

Table 34. Global 5N FPD Aluminum Sputtering Targets Sale Price by Company (2021-2026) & (US\$/Kg)

Table 35. Key Manufacturers 5N FPD Aluminum Sputtering Targets Producing Area Distribution and Sales Area

Table 36. Players 5N FPD Aluminum Sputtering Targets Products Offered

Table 37. 5N FPD Aluminum Sputtering Targets Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 38. New Products and Potential Entrants

Table 39. Market M&A Activity & Strategy

Table 40. Global 5N FPD Aluminum Sputtering Targets Sales by Geographic Region (2021-2026) & (tons)

Table 41. Global 5N FPD Aluminum Sputtering Targets Sales Market Share Geographic Region (2021-2026)

Table 42. Global 5N FPD Aluminum Sputtering Targets Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 43. Global 5N FPD Aluminum Sputtering Targets Revenue Market Share by Geographic Region (2021-2026)

Table 44. Global 5N FPD Aluminum Sputtering Targets Sales by Country/Region (2021-2026) & (tons)

Table 45. Global 5N FPD Aluminum Sputtering Targets Sales Market Share by Country/Region (2021-2026)

Table 46. Global 5N FPD Aluminum Sputtering Targets Revenue by Country/Region (2021-2026) & (\$ millions)

Table 47. Global 5N FPD Aluminum Sputtering Targets Revenue Market Share by Country/Region (2021-2026)

Table 48. Americas 5N FPD Aluminum Sputtering Targets Sales by Country (2021-2026) & (tons)

Table 49. Americas 5N FPD Aluminum Sputtering Targets Sales Market Share by Country (2021-2026)

Table 50. Americas 5N FPD Aluminum Sputtering Targets Revenue by Country (2021-2026) & (\$ millions)

Table 51. Americas 5N FPD Aluminum Sputtering Targets Sales by Type (2021-2026) & (tons)

Table 52. Americas 5N FPD Aluminum Sputtering Targets Sales by Application (2021-2026) & (tons)

Table 53. APAC 5N FPD Aluminum Sputtering Targets Sales by Region (2021-2026) & (tons)

Table 54. APAC 5N FPD Aluminum Sputtering Targets Sales Market Share by Region (2021-2026)

Table 55. APAC 5N FPD Aluminum Sputtering Targets Revenue by Region (2021-2026) & (\$ millions)

Table 56. APAC 5N FPD Aluminum Sputtering Targets Sales by Type (2021-2026) & (tons)

Table 57. APAC 5N FPD Aluminum Sputtering Targets Sales by Application (2021-2026) & (tons)

Table 58. Europe 5N FPD Aluminum Sputtering Targets Sales by Country (2021-2026) & (tons)

Table 59. Europe 5N FPD Aluminum Sputtering Targets Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe 5N FPD Aluminum Sputtering Targets Sales by Type (2021-2026) & (tons)

Table 61. Europe 5N FPD Aluminum Sputtering Targets Sales by Application (2021-2026) & (tons)

Table 62. Middle East & Africa 5N FPD Aluminum Sputtering Targets Sales by Country

(2021-2026) & (tons)

Table 63. Middle East & Africa 5N FPD Aluminum Sputtering Targets Revenue Market Share by Country (2021-2026)

Table 64. Middle East & Africa 5N FPD Aluminum Sputtering Targets Sales by Type (2021-2026) & (tons)

Table 65. Middle East & Africa 5N FPD Aluminum Sputtering Targets Sales by Application (2021-2026) & (tons)

Table 66. Key Market Drivers & Growth Opportunities of 5N FPD Aluminum Sputtering Targets

Table 67. Key Market Challenges & Risks of 5N FPD Aluminum Sputtering Targets

Table 68. Key Industry Trends of 5N FPD Aluminum Sputtering Targets

Table 69. 5N FPD Aluminum Sputtering Targets Raw Material

Table 70. Key Suppliers of Raw Materials

Table 71. 5N FPD Aluminum Sputtering Targets Distributors List

Table 72. 5N FPD Aluminum Sputtering Targets Customer List

Table 73. Global 5N FPD Aluminum Sputtering Targets Sales Forecast by Region (2027-2032) & (tons)

Table 74. Global 5N FPD Aluminum Sputtering Targets Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 75. Americas 5N FPD Aluminum Sputtering Targets Sales Forecast by Country (2027-2032) & (tons)

Table 76. Americas 5N FPD Aluminum Sputtering Targets Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. APAC 5N FPD Aluminum Sputtering Targets Sales Forecast by Region (2027-2032) & (tons)

Table 78. APAC 5N FPD Aluminum Sputtering Targets Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Europe 5N FPD Aluminum Sputtering Targets Sales Forecast by Country (2027-2032) & (tons)

Table 80. Europe 5N FPD Aluminum Sputtering Targets Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. Middle East & Africa 5N FPD Aluminum Sputtering Targets Sales Forecast by Country (2027-2032) & (tons)

Table 82. Middle East & Africa 5N FPD Aluminum Sputtering Targets Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Global 5N FPD Aluminum Sputtering Targets Sales Forecast by Type (2027-2032) & (tons)

Table 84. Global 5N FPD Aluminum Sputtering Targets Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 85. Global 5N FPD Aluminum Sputtering Targets Sales Forecast by Application (2027-2032) & (tons)

Table 86. Global 5N FPD Aluminum Sputtering Targets Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 87. Sumitomo Chemical Basic Information, 5N FPD Aluminum Sputtering Targets Manufacturing Base, Sales Area and Its Competitors

Table 88. Sumitomo Chemical 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications

Table 89. Sumitomo Chemical 5N FPD Aluminum Sputtering Targets Sales (tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 90. Sumitomo Chemical Main Business

Table 91. Sumitomo Chemical Latest Developments

Table 92. Konfoong Materials International Basic Information, 5N FPD Aluminum Sputtering Targets Manufacturing Base, Sales Area and Its Competitors

Table 93. Konfoong Materials International 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications

Table 94. Konfoong Materials International 5N FPD Aluminum Sputtering Targets Sales (tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 95. Konfoong Materials International Main Business

Table 96. Konfoong Materials International Latest Developments

Table 97. Linde Basic Information, 5N FPD Aluminum Sputtering Targets Manufacturing Base, Sales Area and Its Competitors

Table 98. Linde 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications

Table 99. Linde 5N FPD Aluminum Sputtering Targets Sales (tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 100. Linde Main Business

Table 101. Linde Latest Developments

Table 102. YMC Basic Information, 5N FPD Aluminum Sputtering Targets Manufacturing Base, Sales Area and Its Competitors

Table 103. YMC 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications

Table 104. YMC 5N FPD Aluminum Sputtering Targets Sales (tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 105. YMC Main Business

Table 106. YMC Latest Developments

Table 107. Comet Basic Information, 5N FPD Aluminum Sputtering Targets Manufacturing Base, Sales Area and Its Competitors

Table 108. Comet 5N FPD Aluminum Sputtering Targets Product Portfolios and

Specifications

Table 109. Comet 5N FPD Aluminum Sputtering Targets Sales (tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 110. Comet Main Business

Table 111. Comet Latest Developments

Table 112. Omat Advanced Materials Basic Information, 5N FPD Aluminum Sputtering Targets Manufacturing Base, Sales Area and Its Competitors

Table 113. Omat Advanced Materials 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications

Table 114. Omat Advanced Materials 5N FPD Aluminum Sputtering Targets Sales (tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 115. Omat Advanced Materials Main Business

Table 116. Omat Advanced Materials Latest Developments

Table 117. Advantec Basic Information, 5N FPD Aluminum Sputtering Targets Manufacturing Base, Sales Area and Its Competitors

Table 118. Advantec 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications

Table 119. Advantec 5N FPD Aluminum Sputtering Targets Sales (tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 120. Advantec Main Business

Table 121. Advantec Latest Developments

Table 122. Umicore Basic Information, 5N FPD Aluminum Sputtering Targets Manufacturing Base, Sales Area and Its Competitors

Table 123. Umicore 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications

Table 124. Umicore 5N FPD Aluminum Sputtering Targets Sales (tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 125. Umicore Main Business

Table 126. Umicore Latest Developments

Table 127. Thintech Materials Technology Basic Information, 5N FPD Aluminum Sputtering Targets Manufacturing Base, Sales Area and Its Competitors

Table 128. Thintech Materials Technology 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications

Table 129. Thintech Materials Technology 5N FPD Aluminum Sputtering Targets Sales (tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 130. Thintech Materials Technology Main Business

Table 131. Thintech Materials Technology Latest Developments

Table 132. Fujian Acetron New Materials Basic Information, 5N FPD Aluminum Sputtering Targets Manufacturing Base, Sales Area and Its Competitors

Table 133. Fujian Acetron New Materials 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications

Table 134. Fujian Acetron New Materials 5N FPD Aluminum Sputtering Targets Sales (tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 135. Fujian Acetron New Materials Main Business

Table 136. Fujian Acetron New Materials Latest Developments

Table 137. Angstrom Sciences Basic Information, 5N FPD Aluminum Sputtering Targets Manufacturing Base, Sales Area and Its Competitors

Table 138. Angstrom Sciences 5N FPD Aluminum Sputtering Targets Product Portfolios and Specifications

Table 139. Angstrom Sciences 5N FPD Aluminum Sputtering Targets Sales (tons), Revenue (\$ Million), Price (US\$/Kg) and Gross Margin (2021-2026)

Table 140. Angstrom Sciences Main Business

Table 141. Angstrom Sciences Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of 5N FPD Aluminum Sputtering Targets
- Figure 2. 5N FPD Aluminum Sputtering Targets Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global 5N FPD Aluminum Sputtering Targets Sales Growth Rate 2021-2032 (tons)
- Figure 7. Global 5N FPD Aluminum Sputtering Targets Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. 5N FPD Aluminum Sputtering Targets Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. 5N FPD Aluminum Sputtering Targets Sales Market Share by Country/Region (2025)
- Figure 10. 5N FPD Aluminum Sputtering Targets Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Planar Aluminum Target
- Figure 12. Product Picture of Rotating Aluminum Target
- Figure 13. Global 5N FPD Aluminum Sputtering Targets Sales Market Share by Type in 2026
- Figure 14. Global 5N FPD Aluminum Sputtering Targets Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of for G6 and Below Lines
- Figure 16. Product Picture of for G7?G8.6 Lines
- Figure 17. Product Picture of for G10 and Above Lines
- Figure 18. Global 5N FPD Aluminum Sputtering Targets Sales Market Share by Compatible Display Line Generation in 2026
- Figure 19. Global 5N FPD Aluminum Sputtering Targets Revenue Market Share by Compatible Display Line Generation (2021-2026)
- Figure 20. Product Picture of Direct Sales
- Figure 21. Product Picture of Distribution
- Figure 22. Global 5N FPD Aluminum Sputtering Targets Sales Market Share by Sales Channel in 2026
- Figure 23. Global 5N FPD Aluminum Sputtering Targets Revenue Market Share by Sales Channel (2021-2026)
- Figure 24. 5N FPD Aluminum Sputtering Targets Consumed in LCD

Figure 25. Global 5N FPD Aluminum Sputtering Targets Market: LCD (2021-2026) & (tons)

Figure 26. 5N FPD Aluminum Sputtering Targets Consumed in OLED

Figure 27. Global 5N FPD Aluminum Sputtering Targets Market: OLED (2021-2026) & (tons)

Figure 28. Global 5N FPD Aluminum Sputtering Targets Sale Market Share by Application (2025)

Figure 29. Global 5N FPD Aluminum Sputtering Targets Revenue Market Share by Application in 2025

Figure 30. 5N FPD Aluminum Sputtering Targets Sales by Company in 2025 (tons)

Figure 31. Global 5N FPD Aluminum Sputtering Targets Sales Market Share by Company in 2025

Figure 32. 5N FPD Aluminum Sputtering Targets Revenue by Company in 2025 (\$ millions)

Figure 33. Global 5N FPD Aluminum Sputtering Targets Revenue Market Share by Company in 2025

Figure 34. Global 5N FPD Aluminum Sputtering Targets Sales Market Share by Geographic Region (2021-2026)

Figure 35. Global 5N FPD Aluminum Sputtering Targets Revenue Market Share by Geographic Region in 2025

Figure 36. Americas 5N FPD Aluminum Sputtering Targets Sales 2021-2026 (tons)

Figure 37. Americas 5N FPD Aluminum Sputtering Targets Revenue 2021-2026 (\$ millions)

Figure 38. APAC 5N FPD Aluminum Sputtering Targets Sales 2021-2026 (tons)

Figure 39. APAC 5N FPD Aluminum Sputtering Targets Revenue 2021-2026 (\$ millions)

Figure 40. Europe 5N FPD Aluminum Sputtering Targets Sales 2021-2026 (tons)

Figure 41. Europe 5N FPD Aluminum Sputtering Targets Revenue 2021-2026 (\$ millions)

Figure 42. Middle East & Africa 5N FPD Aluminum Sputtering Targets Sales 2021-2026 (tons)

Figure 43. Middle East & Africa 5N FPD Aluminum Sputtering Targets Revenue 2021-2026 (\$ millions)

Figure 44. Americas 5N FPD Aluminum Sputtering Targets Sales Market Share by Country in 2025

Figure 45. Americas 5N FPD Aluminum Sputtering Targets Revenue Market Share by Country (2021-2026)

Figure 46. Americas 5N FPD Aluminum Sputtering Targets Sales Market Share by Type (2021-2026)

Figure 47. Americas 5N FPD Aluminum Sputtering Targets Sales Market Share by Application (2021-2026)

Figure 48. United States 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 49. Canada 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 50. Mexico 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 51. Brazil 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 52. APAC 5N FPD Aluminum Sputtering Targets Sales Market Share by Region in 2025

Figure 53. APAC 5N FPD Aluminum Sputtering Targets Revenue Market Share by Region (2021-2026)

Figure 54. APAC 5N FPD Aluminum Sputtering Targets Sales Market Share by Type (2021-2026)

Figure 55. APAC 5N FPD Aluminum Sputtering Targets Sales Market Share by Application (2021-2026)

Figure 56. China 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 57. Japan 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 58. South Korea 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 59. Southeast Asia 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 60. India 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 61. Australia 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 62. China Taiwan 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 63. Europe 5N FPD Aluminum Sputtering Targets Sales Market Share by Country in 2025

Figure 64. Europe 5N FPD Aluminum Sputtering Targets Revenue Market Share by Country (2021-2026)

Figure 65. Europe 5N FPD Aluminum Sputtering Targets Sales Market Share by Type (2021-2026)

Figure 66. Europe 5N FPD Aluminum Sputtering Targets Sales Market Share by

Application (2021-2026)

Figure 67. Germany 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 68. France 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 69. UK 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 70. Italy 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 71. Russia 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 72. Middle East & Africa 5N FPD Aluminum Sputtering Targets Sales Market Share by Country (2021-2026)

Figure 73. Middle East & Africa 5N FPD Aluminum Sputtering Targets Sales Market Share by Type (2021-2026)

Figure 74. Middle East & Africa 5N FPD Aluminum Sputtering Targets Sales Market Share by Application (2021-2026)

Figure 75. Egypt 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 76. South Africa 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 77. Israel 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 78. Turkey 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 79. GCC Countries 5N FPD Aluminum Sputtering Targets Revenue Growth 2021-2026 (\$ millions)

Figure 80. Manufacturing Cost Structure Analysis of 5N FPD Aluminum Sputtering Targets in 2026

Figure 81. Manufacturing Process Analysis of 5N FPD Aluminum Sputtering Targets

Figure 82. Industry Chain Structure of 5N FPD Aluminum Sputtering Targets

Figure 83. Channels of Distribution

Figure 84. Global 5N FPD Aluminum Sputtering Targets Sales Market Forecast by Region (2027-2032)

Figure 85. Global 5N FPD Aluminum Sputtering Targets Revenue Market Share Forecast by Region (2027-2032)

Figure 86. Global 5N FPD Aluminum Sputtering Targets Sales Market Share Forecast by Type (2027-2032)

Figure 87. Global 5N FPD Aluminum Sputtering Targets Revenue Market Share

Forecast by Type (2027-2032)

Figure 88. Global 5N FPD Aluminum Sputtering Targets Sales Market Share Forecast by Application (2027-2032)

Figure 89. Global 5N FPD Aluminum Sputtering Targets Revenue Market Share Forecast by Application (2027-2032)

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