

Global 5N FPD Aluminum Sputtering Targets Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 5N FPD Aluminum Sputtering Targets market size is expected to reach \$ 131 million by 2032, rising at a market growth of 2.8% CAGR during the forecast period (2026-2032).

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.

This report studies the global 5N FPD Aluminum Sputtering Targets production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 5N FPD Aluminum Sputtering Targets and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 5N FPD Aluminum Sputtering Targets that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 5N FPD Aluminum Sputtering Targets total production and demand, 2021-2032, (tons)

Global 5N FPD Aluminum Sputtering Targets total production value, 2021-2032, (USD Million)

Global 5N FPD Aluminum Sputtering Targets production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (tons), (based on production site)

Global 5N FPD Aluminum Sputtering Targets consumption by region & country, CAGR, 2021-2032 & (tons)

U.S. VS China: 5N FPD Aluminum Sputtering Targets domestic production, consumption, key domestic manufacturers and share

Global 5N FPD Aluminum Sputtering Targets production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (tons)

Global 5N FPD Aluminum Sputtering Targets production by Type, production, value, CAGR, 2021-2032, (USD Million) & (tons)

Global 5N FPD Aluminum Sputtering Targets production by Application, production, value, CAGR, 2021-2032, (USD Million) & (tons)

This report profiles key players in the global 5N FPD Aluminum Sputtering Targets market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sumitomo Chemical, Konfoong Materials International, Linde, YMC, Comet, Omat Advanced Materials, Advantec, Umicore, Thintech Materials Technology, Fujian Acetron New Materials, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 5N FPD Aluminum Sputtering Targets market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (tons) and average price (US\$/Kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 5N FPD Aluminum Sputtering Targets Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 5N FPD Aluminum Sputtering Targets Market, Segmentation by Type:

Planar Aluminum Target

Rotating Aluminum Target

Global 5N FPD Aluminum Sputtering Targets Market, Segmentation by Compatible Display Line Generation:

for G6 and Below Lines

for G7–G8.6 Lines

for G10 and Above Lines

Global 5N FPD Aluminum Sputtering Targets Market, Segmentation by Sales Channel:

Direct Sales

Distribution

Global 5N FPD Aluminum Sputtering Targets Market, Segmentation by Application:

LCD

OLED

Companies Profiled:

Sumitomo Chemical

Konfoong Materials International

Linde

YMC

Comet

Omat Advanced Materials

Advantec

Umicore

Thintech Materials Technology

Fujian Acetron New Materials

Angstrom Sciences

Key Questions Answered:

1. How big is the global 5N FPD Aluminum Sputtering Targets market?
2. What is the demand of the global 5N FPD Aluminum Sputtering Targets market?
3. What is the year over year growth of the global 5N FPD Aluminum Sputtering Targets market?
4. What is the production and production value of the global 5N FPD Aluminum Sputtering Targets market?
5. Who are the key producers in the global 5N FPD Aluminum Sputtering Targets market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 5N FPD Aluminum Sputtering Targets Introduction
- 1.2 World 5N FPD Aluminum Sputtering Targets Supply & Forecast
 - 1.2.1 World 5N FPD Aluminum Sputtering Targets Production Value (2021 & 2025 & 2032)
 - 1.2.2 World 5N FPD Aluminum Sputtering Targets Production (2021-2032)
 - 1.2.3 World 5N FPD Aluminum Sputtering Targets Pricing Trends (2021-2032)
- 1.3 World 5N FPD Aluminum Sputtering Targets Production by Region (Based on Production Site)
 - 1.3.1 World 5N FPD Aluminum Sputtering Targets Production Value by Region (2021-2032)
 - 1.3.2 World 5N FPD Aluminum Sputtering Targets Production by Region (2021-2032)
 - 1.3.3 World 5N FPD Aluminum Sputtering Targets Average Price by Region (2021-2032)
 - 1.3.4 North America 5N FPD Aluminum Sputtering Targets Production (2021-2032)
 - 1.3.5 Europe 5N FPD Aluminum Sputtering Targets Production (2021-2032)
 - 1.3.6 China 5N FPD Aluminum Sputtering Targets Production (2021-2032)
 - 1.3.7 Japan 5N FPD Aluminum Sputtering Targets Production (2021-2032)
 - 1.3.8 South Korea 5N FPD Aluminum Sputtering Targets Production (2021-2032)
 - 1.3.9 China Taiwan 5N FPD Aluminum Sputtering Targets Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 5N FPD Aluminum Sputtering Targets Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 5N FPD Aluminum Sputtering Targets Major Market Trends

2 DEMAND SUMMARY

- 2.1 World 5N FPD Aluminum Sputtering Targets Demand (2021-2032)
- 2.2 World 5N FPD Aluminum Sputtering Targets Consumption by Region
 - 2.2.1 World 5N FPD Aluminum Sputtering Targets Consumption by Region (2021-2026)
 - 2.2.2 World 5N FPD Aluminum Sputtering Targets Consumption Forecast by Region (2027-2032)
- 2.3 United States 5N FPD Aluminum Sputtering Targets Consumption (2021-2032)
- 2.4 China 5N FPD Aluminum Sputtering Targets Consumption (2021-2032)
- 2.5 Europe 5N FPD Aluminum Sputtering Targets Consumption (2021-2032)

- 2.6 Japan 5N FPD Aluminum Sputtering Targets Consumption (2021-2032)
- 2.7 South Korea 5N FPD Aluminum Sputtering Targets Consumption (2021-2032)
- 2.8 ASEAN 5N FPD Aluminum Sputtering Targets Consumption (2021-2032)
- 2.9 India 5N FPD Aluminum Sputtering Targets Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World 5N FPD Aluminum Sputtering Targets Production Value by Manufacturer (2021-2026)
- 3.2 World 5N FPD Aluminum Sputtering Targets Production by Manufacturer (2021-2026)
- 3.3 World 5N FPD Aluminum Sputtering Targets Average Price by Manufacturer (2021-2026)
- 3.4 5N FPD Aluminum Sputtering Targets Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global 5N FPD Aluminum Sputtering Targets Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for 5N FPD Aluminum Sputtering Targets in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for 5N FPD Aluminum Sputtering Targets in 2025
- 3.6 5N FPD Aluminum Sputtering Targets Market: Overall Company Footprint Analysis
 - 3.6.1 5N FPD Aluminum Sputtering Targets Market: Region Footprint
 - 3.6.2 5N FPD Aluminum Sputtering Targets Market: Company Product Type Footprint
 - 3.6.3 5N FPD Aluminum Sputtering Targets Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: 5N FPD Aluminum Sputtering Targets Production Value Comparison
 - 4.1.1 United States VS China: 5N FPD Aluminum Sputtering Targets Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: 5N FPD Aluminum Sputtering Targets Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: 5N FPD Aluminum Sputtering Targets Production Comparison

4.2.1 United States VS China: 5N FPD Aluminum Sputtering Targets Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: 5N FPD Aluminum Sputtering Targets Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: 5N FPD Aluminum Sputtering Targets Consumption Comparison

4.3.1 United States VS China: 5N FPD Aluminum Sputtering Targets Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: 5N FPD Aluminum Sputtering Targets Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based 5N FPD Aluminum Sputtering Targets Manufacturers and Market Share, 2021-2026

4.4.1 United States Based 5N FPD Aluminum Sputtering Targets Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers 5N FPD Aluminum Sputtering Targets Production Value (2021-2026)

4.4.3 United States Based Manufacturers 5N FPD Aluminum Sputtering Targets Production (2021-2026)

4.5 China Based 5N FPD Aluminum Sputtering Targets Manufacturers and Market Share

4.5.1 China Based 5N FPD Aluminum Sputtering Targets Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers 5N FPD Aluminum Sputtering Targets Production Value (2021-2026)

4.5.3 China Based Manufacturers 5N FPD Aluminum Sputtering Targets Production (2021-2026)

4.6 Rest of World Based 5N FPD Aluminum Sputtering Targets Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based 5N FPD Aluminum Sputtering Targets Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers 5N FPD Aluminum Sputtering Targets Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers 5N FPD Aluminum Sputtering Targets Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World 5N FPD Aluminum Sputtering Targets Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Planar Aluminum Target

5.2.2 Rotating Aluminum Target

5.3 Market Segment by Type

5.3.1 World 5N FPD Aluminum Sputtering Targets Production by Type (2021-2032)

5.3.2 World 5N FPD Aluminum Sputtering Targets Production Value by Type (2021-2032)

5.3.3 World 5N FPD Aluminum Sputtering Targets Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY COMPATIBLE DISPLAY LINE GENERATION

6.1 World 5N FPD Aluminum Sputtering Targets Market Size Overview by Compatible Display Line Generation: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Compatible Display Line Generation

6.2.1 for G6 and Below Lines

6.2.2 for G7–G8.6 Lines

6.2.3 for G10 and Above Lines

6.3 Market Segment by Compatible Display Line Generation

6.3.1 World 5N FPD Aluminum Sputtering Targets Production by Compatible Display Line Generation (2021-2032)

6.3.2 World 5N FPD Aluminum Sputtering Targets Production Value by Compatible Display Line Generation (2021-2032)

6.3.3 World 5N FPD Aluminum Sputtering Targets Average Price by Compatible Display Line Generation (2021-2032)

7 MARKET ANALYSIS BY SALES CHANNEL

7.1 World 5N FPD Aluminum Sputtering Targets Market Size Overview by Sales Channel: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Sales Channel

7.2.1 Direct Sales

7.2.2 Distribution

7.3 Market Segment by Sales Channel

7.3.1 World 5N FPD Aluminum Sputtering Targets Production by Sales Channel (2021-2032)

7.3.2 World 5N FPD Aluminum Sputtering Targets Production Value by Sales Channel (2021-2032)

7.3.3 World 5N FPD Aluminum Sputtering Targets Average Price by Sales Channel (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World 5N FPD Aluminum Sputtering Targets Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 LCD

8.2.2 OLED

8.3 Market Segment by Application

8.3.1 World 5N FPD Aluminum Sputtering Targets Production by Application (2021-2032)

8.3.2 World 5N FPD Aluminum Sputtering Targets Production Value by Application (2021-2032)

8.3.3 World 5N FPD Aluminum Sputtering Targets Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Sumitomo Chemical

9.1.1 Sumitomo Chemical Details

9.1.2 Sumitomo Chemical Major Business

9.1.3 Sumitomo Chemical 5N FPD Aluminum Sputtering Targets Product and Services

9.1.4 Sumitomo Chemical 5N FPD Aluminum Sputtering Targets Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Sumitomo Chemical Recent Developments/Updates

9.1.6 Sumitomo Chemical Competitive Strengths & Weaknesses

9.2 Konfoong Materials International

9.2.1 Konfoong Materials International Details

9.2.2 Konfoong Materials International Major Business

9.2.3 Konfoong Materials International 5N FPD Aluminum Sputtering Targets Product and Services

9.2.4 Konfoong Materials International 5N FPD Aluminum Sputtering Targets Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Konfoong Materials International Recent Developments/Updates

9.2.6 Konfoong Materials International Competitive Strengths & Weaknesses

9.3 Linde

9.3.1 Linde Details

9.3.2 Linde Major Business

9.3.3 Linde 5N FPD Aluminum Sputtering Targets Product and Services

9.3.4 Linde 5N FPD Aluminum Sputtering Targets Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Linde Recent Developments/Updates

9.3.6 Linde Competitive Strengths & Weaknesses

9.4 YMC

9.4.1 YMC Details

9.4.2 YMC Major Business

9.4.3 YMC 5N FPD Aluminum Sputtering Targets Product and Services

9.4.4 YMC 5N FPD Aluminum Sputtering Targets Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 YMC Recent Developments/Updates

9.4.6 YMC Competitive Strengths & Weaknesses

9.5 Comet

9.5.1 Comet Details

9.5.2 Comet Major Business

9.5.3 Comet 5N FPD Aluminum Sputtering Targets Product and Services

9.5.4 Comet 5N FPD Aluminum Sputtering Targets Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Comet Recent Developments/Updates

9.5.6 Comet Competitive Strengths & Weaknesses

9.6 Omat Advanced Materials

9.6.1 Omat Advanced Materials Details

9.6.2 Omat Advanced Materials Major Business

9.6.3 Omat Advanced Materials 5N FPD Aluminum Sputtering Targets Product and Services

9.6.4 Omat Advanced Materials 5N FPD Aluminum Sputtering Targets Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Omat Advanced Materials Recent Developments/Updates

9.6.6 Omat Advanced Materials Competitive Strengths & Weaknesses

9.7 Advantec

9.7.1 Advantec Details

9.7.2 Advantec Major Business

9.7.3 Advantec 5N FPD Aluminum Sputtering Targets Product and Services

9.7.4 Advantec 5N FPD Aluminum Sputtering Targets Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.7.5 Advantec Recent Developments/Updates
- 9.7.6 Advantec Competitive Strengths & Weaknesses
- 9.8 Umicore
 - 9.8.1 Umicore Details
 - 9.8.2 Umicore Major Business
 - 9.8.3 Umicore 5N FPD Aluminum Sputtering Targets Product and Services
 - 9.8.4 Umicore 5N FPD Aluminum Sputtering Targets Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Umicore Recent Developments/Updates
 - 9.8.6 Umicore Competitive Strengths & Weaknesses
- 9.9 Thintech Materials Technology
 - 9.9.1 Thintech Materials Technology Details
 - 9.9.2 Thintech Materials Technology Major Business
 - 9.9.3 Thintech Materials Technology 5N FPD Aluminum Sputtering Targets Product and Services
 - 9.9.4 Thintech Materials Technology 5N FPD Aluminum Sputtering Targets Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Thintech Materials Technology Recent Developments/Updates
 - 9.9.6 Thintech Materials Technology Competitive Strengths & Weaknesses
- 9.10 Fujian Acetron New Materials
 - 9.10.1 Fujian Acetron New Materials Details
 - 9.10.2 Fujian Acetron New Materials Major Business
 - 9.10.3 Fujian Acetron New Materials 5N FPD Aluminum Sputtering Targets Product and Services
 - 9.10.4 Fujian Acetron New Materials 5N FPD Aluminum Sputtering Targets Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Fujian Acetron New Materials Recent Developments/Updates
 - 9.10.6 Fujian Acetron New Materials Competitive Strengths & Weaknesses
- 9.11 Angstrom Sciences
 - 9.11.1 Angstrom Sciences Details
 - 9.11.2 Angstrom Sciences Major Business
 - 9.11.3 Angstrom Sciences 5N FPD Aluminum Sputtering Targets Product and Services
 - 9.11.4 Angstrom Sciences 5N FPD Aluminum Sputtering Targets Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Angstrom Sciences Recent Developments/Updates
 - 9.11.6 Angstrom Sciences Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 5N FPD Aluminum Sputtering Targets Industry Chain
- 10.2 5N FPD Aluminum Sputtering Targets Upstream Analysis
 - 10.2.1 5N FPD Aluminum Sputtering Targets Core Raw Materials
 - 10.2.2 Main Manufacturers of 5N FPD Aluminum Sputtering Targets Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 5N FPD Aluminum Sputtering Targets Production Mode
- 10.6 5N FPD Aluminum Sputtering Targets Procurement Model
- 10.7 5N FPD Aluminum Sputtering Targets Industry Sales Model and Sales Channels
 - 10.7.1 5N FPD Aluminum Sputtering Targets Sales Model
 - 10.7.2 5N FPD Aluminum Sputtering Targets Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World 5N FPD Aluminum Sputtering Targets Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World 5N FPD Aluminum Sputtering Targets Production Value by Region (2021-2026) & (USD Million)

Table 3. World 5N FPD Aluminum Sputtering Targets Production Value by Region (2027-2032) & (USD Million)

Table 4. World 5N FPD Aluminum Sputtering Targets Production Value Market Share by Region (2021-2026)

Table 5. World 5N FPD Aluminum Sputtering Targets Production Value Market Share by Region (2027-2032)

Table 6. World 5N FPD Aluminum Sputtering Targets Production by Region (2021-2026) & (tons)

Table 7. World 5N FPD Aluminum Sputtering Targets Production by Region (2027-2032) & (tons)

Table 8. World 5N FPD Aluminum Sputtering Targets Production Market Share by Region (2021-2026)

Table 9. World 5N FPD Aluminum Sputtering Targets Production Market Share by Region (2027-2032)

Table 10. World 5N FPD Aluminum Sputtering Targets Average Price by Region (2021-2026) & (US\$/Kg)

Table 11. World 5N FPD Aluminum Sputtering Targets Average Price by Region (2027-2032) & (US\$/Kg)

Table 12. 5N FPD Aluminum Sputtering Targets Major Market Trends

Table 13. World 5N FPD Aluminum Sputtering Targets Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (tons)

Table 14. World 5N FPD Aluminum Sputtering Targets Consumption by Region (2021-2026) & (tons)

Table 15. World 5N FPD Aluminum Sputtering Targets Consumption Forecast by Region (2027-2032) & (tons)

Table 16. World 5N FPD Aluminum Sputtering Targets Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key 5N FPD Aluminum Sputtering Targets Producers in 2025

Table 18. World 5N FPD Aluminum Sputtering Targets Production by Manufacturer (2021-2026) & (tons)

Table 19. Production Market Share of Key 5N FPD Aluminum Sputtering Targets Producers in 2025

Table 20. World 5N FPD Aluminum Sputtering Targets Average Price by Manufacturer (2021-2026) & (US\$/Kg)

Table 21. Global 5N FPD Aluminum Sputtering Targets Company Evaluation Quadrant

Table 22. World 5N FPD Aluminum Sputtering Targets Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and 5N FPD Aluminum Sputtering Targets Production Site of Key Manufacturer

Table 24. 5N FPD Aluminum Sputtering Targets Market: Company Product Type Footprint

Table 25. 5N FPD Aluminum Sputtering Targets Market: Company Product Application Footprint

Table 26. 5N FPD Aluminum Sputtering Targets Competitive Factors

Table 27. 5N FPD Aluminum Sputtering Targets New Entrant and Capacity Expansion Plans

Table 28. 5N FPD Aluminum Sputtering Targets Mergers & Acquisitions Activity

Table 29. United States VS China 5N FPD Aluminum Sputtering Targets Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China 5N FPD Aluminum Sputtering Targets Production Comparison, (2021 & 2025 & 2032) & (tons)

Table 31. United States VS China 5N FPD Aluminum Sputtering Targets Consumption Comparison, (2021 & 2025 & 2032) & (tons)

Table 32. United States Based 5N FPD Aluminum Sputtering Targets Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers 5N FPD Aluminum Sputtering Targets Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers 5N FPD Aluminum Sputtering Targets Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers 5N FPD Aluminum Sputtering Targets Production (2021-2026) & (tons)

Table 36. United States Based Manufacturers 5N FPD Aluminum Sputtering Targets Production Market Share (2021-2026)

Table 37. China Based 5N FPD Aluminum Sputtering Targets Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers 5N FPD Aluminum Sputtering Targets Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers 5N FPD Aluminum Sputtering Targets Production Value Market Share (2021-2026)

- Table 40. China Based Manufacturers 5N FPD Aluminum Sputtering Targets Production, (2021-2026) & (tons)
- Table 41. China Based Manufacturers 5N FPD Aluminum Sputtering Targets Production Market Share (2021-2026)
- Table 42. Rest of World Based 5N FPD Aluminum Sputtering Targets Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers 5N FPD Aluminum Sputtering Targets Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers 5N FPD Aluminum Sputtering Targets Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers 5N FPD Aluminum Sputtering Targets Production, (2021-2026) & (tons)
- Table 46. Rest of World Based Manufacturers 5N FPD Aluminum Sputtering Targets Production Market Share (2021-2026)
- Table 47. World 5N FPD Aluminum Sputtering Targets Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 48. World 5N FPD Aluminum Sputtering Targets Production by Type (2021-2026) & (tons)
- Table 49. World 5N FPD Aluminum Sputtering Targets Production by Type (2027-2032) & (tons)
- Table 50. World 5N FPD Aluminum Sputtering Targets Production Value by Type (2021-2026) & (USD Million)
- Table 51. World 5N FPD Aluminum Sputtering Targets Production Value by Type (2027-2032) & (USD Million)
- Table 52. World 5N FPD Aluminum Sputtering Targets Average Price by Type (2021-2026) & (US\$/Kg)
- Table 53. World 5N FPD Aluminum Sputtering Targets Average Price by Type (2027-2032) & (US\$/Kg)
- Table 54. World 5N FPD Aluminum Sputtering Targets Production Value by Compatible Display Line Generation, (USD Million), 2021 & 2025 & 2032
- Table 55. World 5N FPD Aluminum Sputtering Targets Production by Compatible Display Line Generation (2021-2026) & (tons)
- Table 56. World 5N FPD Aluminum Sputtering Targets Production by Compatible Display Line Generation (2027-2032) & (tons)
- Table 57. World 5N FPD Aluminum Sputtering Targets Production Value by Compatible Display Line Generation (2021-2026) & (USD Million)
- Table 58. World 5N FPD Aluminum Sputtering Targets Production Value by Compatible Display Line Generation (2027-2032) & (USD Million)
- Table 59. World 5N FPD Aluminum Sputtering Targets Average Price by Compatible

Display Line Generation (2021-2026) & (US\$/Kg)

Table 60. World 5N FPD Aluminum Sputtering Targets Average Price by Compatible Display Line Generation (2027-2032) & (US\$/Kg)

Table 61. World 5N FPD Aluminum Sputtering Targets Production Value by Sales Channel, (USD Million), 2021 & 2025 & 2032

Table 62. World 5N FPD Aluminum Sputtering Targets Production by Sales Channel (2021-2026) & (tons)

Table 63. World 5N FPD Aluminum Sputtering Targets Production by Sales Channel (2027-2032) & (tons)

Table 64. World 5N FPD Aluminum Sputtering Targets Production Value by Sales Channel (2021-2026) & (USD Million)

Table 65. World 5N FPD Aluminum Sputtering Targets Production Value by Sales Channel (2027-2032) & (USD Million)

Table 66. World 5N FPD Aluminum Sputtering Targets Average Price by Sales Channel (2021-2026) & (US\$/Kg)

Table 67. World 5N FPD Aluminum Sputtering Targets Average Price by Sales Channel (2027-2032) & (US\$/Kg)

Table 68. World 5N FPD Aluminum Sputtering Targets Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World 5N FPD Aluminum Sputtering Targets Production by Application (2021-2026) & (tons)

Table 70. World 5N FPD Aluminum Sputtering Targets Production by Application (2027-2032) & (tons)

Table 71. World 5N FPD Aluminum Sputtering Targets Production Value by Application (2021-2026) & (USD Million)

Table 72. World 5N FPD Aluminum Sputtering Targets Production Value by Application (2027-2032) & (USD Million)

Table 73. World 5N FPD Aluminum Sputtering Targets Average Price by Application (2021-2026) & (US\$/Kg)

Table 74. World 5N FPD Aluminum Sputtering Targets Average Price by Application (2027-2032) & (US\$/Kg)

Table 75. Sumitomo Chemical Basic Information, Manufacturing Base and Competitors

Table 76. Sumitomo Chemical Major Business

Table 77. Sumitomo Chemical 5N FPD Aluminum Sputtering Targets Product and Services

Table 78. Sumitomo Chemical 5N FPD Aluminum Sputtering Targets Production (tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Sumitomo Chemical Recent Developments/Updates

- Table 80. Sumitomo Chemical Competitive Strengths & Weaknesses
- Table 81. Konfoong Materials International Basic Information, Manufacturing Base and Competitors
- Table 82. Konfoong Materials International Major Business
- Table 83. Konfoong Materials International 5N FPD Aluminum Sputtering Targets Product and Services
- Table 84. Konfoong Materials International 5N FPD Aluminum Sputtering Targets Production (tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Konfoong Materials International Recent Developments/Updates
- Table 86. Konfoong Materials International Competitive Strengths & Weaknesses
- Table 87. Linde Basic Information, Manufacturing Base and Competitors
- Table 88. Linde Major Business
- Table 89. Linde 5N FPD Aluminum Sputtering Targets Product and Services
- Table 90. Linde 5N FPD Aluminum Sputtering Targets Production (tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Linde Recent Developments/Updates
- Table 92. Linde Competitive Strengths & Weaknesses
- Table 93. YMC Basic Information, Manufacturing Base and Competitors
- Table 94. YMC Major Business
- Table 95. YMC 5N FPD Aluminum Sputtering Targets Product and Services
- Table 96. YMC 5N FPD Aluminum Sputtering Targets Production (tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. YMC Recent Developments/Updates
- Table 98. YMC Competitive Strengths & Weaknesses
- Table 99. Comet Basic Information, Manufacturing Base and Competitors
- Table 100. Comet Major Business
- Table 101. Comet 5N FPD Aluminum Sputtering Targets Product and Services
- Table 102. Comet 5N FPD Aluminum Sputtering Targets Production (tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Comet Recent Developments/Updates
- Table 104. Comet Competitive Strengths & Weaknesses
- Table 105. Omat Advanced Materials Basic Information, Manufacturing Base and Competitors
- Table 106. Omat Advanced Materials Major Business
- Table 107. Omat Advanced Materials 5N FPD Aluminum Sputtering Targets Product and Services
- Table 108. Omat Advanced Materials 5N FPD Aluminum Sputtering Targets Production (tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 109. Omat Advanced Materials Recent Developments/Updates

Table 110. Omat Advanced Materials Competitive Strengths & Weaknesses

Table 111. Advantec Basic Information, Manufacturing Base and Competitors

Table 112. Advantec Major Business

Table 113. Advantec 5N FPD Aluminum Sputtering Targets Product and Services

Table 114. Advantec 5N FPD Aluminum Sputtering Targets Production (tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Advantec Recent Developments/Updates

Table 116. Advantec Competitive Strengths & Weaknesses

Table 117. Umicore Basic Information, Manufacturing Base and Competitors

Table 118. Umicore Major Business

Table 119. Umicore 5N FPD Aluminum Sputtering Targets Product and Services

Table 120. Umicore 5N FPD Aluminum Sputtering Targets Production (tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Umicore Recent Developments/Updates

Table 122. Umicore Competitive Strengths & Weaknesses

Table 123. Thintech Materials Technology Basic Information, Manufacturing Base and Competitors

Table 124. Thintech Materials Technology Major Business

Table 125. Thintech Materials Technology 5N FPD Aluminum Sputtering Targets Product and Services

Table 126. Thintech Materials Technology 5N FPD Aluminum Sputtering Targets Production (tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Thintech Materials Technology Recent Developments/Updates

Table 128. Thintech Materials Technology Competitive Strengths & Weaknesses

Table 129. Fujian Acetron New Materials Basic Information, Manufacturing Base and Competitors

Table 130. Fujian Acetron New Materials Major Business

Table 131. Fujian Acetron New Materials 5N FPD Aluminum Sputtering Targets Product and Services

Table 132. Fujian Acetron New Materials 5N FPD Aluminum Sputtering Targets Production (tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Fujian Acetron New Materials Recent Developments/Updates

Table 134. Fujian Acetron New Materials Competitive Strengths & Weaknesses

Table 135. Angstrom Sciences Basic Information, Manufacturing Base and Competitors

Table 136. Angstrom Sciences Major Business

Table 137. Angstrom Sciences 5N FPD Aluminum Sputtering Targets Product and Services

Table 138. Angstrom Sciences 5N FPD Aluminum Sputtering Targets Production (tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Angstrom Sciences Recent Developments/Updates

Table 140. Angstrom Sciences Competitive Strengths & Weaknesses

Table 141. Global Key Players of 5N FPD Aluminum Sputtering Targets Upstream (Raw Materials)

Table 142. Global 5N FPD Aluminum Sputtering Targets Typical Customers

Table 143. 5N FPD Aluminum Sputtering Targets Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. 5N FPD Aluminum Sputtering Targets Picture
- Figure 2. World 5N FPD Aluminum Sputtering Targets Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World 5N FPD Aluminum Sputtering Targets Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World 5N FPD Aluminum Sputtering Targets Production (2021-2032) & (tons)
- Figure 5. World 5N FPD Aluminum Sputtering Targets Average Price (2021-2032) & (US\$/Kg)
- Figure 6. World 5N FPD Aluminum Sputtering Targets Production Value Market Share by Region (2021-2032)
- Figure 7. World 5N FPD Aluminum Sputtering Targets Production Market Share by Region (2021-2032)
- Figure 8. North America 5N FPD Aluminum Sputtering Targets Production (2021-2032) & (tons)
- Figure 9. Europe 5N FPD Aluminum Sputtering Targets Production (2021-2032) & (tons)
- Figure 10. China 5N FPD Aluminum Sputtering Targets Production (2021-2032) & (tons)
- Figure 11. Japan 5N FPD Aluminum Sputtering Targets Production (2021-2032) & (tons)
- Figure 12. South Korea 5N FPD Aluminum Sputtering Targets Production (2021-2032) & (tons)
- Figure 13. China Taiwan 5N FPD Aluminum Sputtering Targets Production (2021-2032) & (tons)
- Figure 14. 5N FPD Aluminum Sputtering Targets Market Drivers
- Figure 15. Factors Affecting Demand
- Figure 16. World 5N FPD Aluminum Sputtering Targets Consumption (2021-2032) & (tons)
- Figure 17. World 5N FPD Aluminum Sputtering Targets Consumption Market Share by Region (2021-2032)
- Figure 18. United States 5N FPD Aluminum Sputtering Targets Consumption (2021-2032) & (tons)
- Figure 19. China 5N FPD Aluminum Sputtering Targets Consumption (2021-2032) & (tons)
- Figure 20. Europe 5N FPD Aluminum Sputtering Targets Consumption (2021-2032) & (tons)

(tons)

Figure 21. Japan 5N FPD Aluminum Sputtering Targets Consumption (2021-2032) &

(tons)

Figure 22. South Korea 5N FPD Aluminum Sputtering Targets Consumption

(2021-2032) & (tons)

Figure 23. ASEAN 5N FPD Aluminum Sputtering Targets Consumption (2021-2032) &

(tons)

Figure 24. India 5N FPD Aluminum Sputtering Targets Consumption (2021-2032) &

(tons)

Figure 25. Producer Shipments of 5N FPD Aluminum Sputtering Targets by
Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for 5N FPD Aluminum
Sputtering Targets Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for 5N FPD Aluminum
Sputtering Targets Markets in 2025

Figure 28. United States VS China: 5N FPD Aluminum Sputtering Targets Production
Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: 5N FPD Aluminum Sputtering Targets Production
Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: 5N FPD Aluminum Sputtering Targets Consumption
Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers 5N FPD Aluminum Sputtering Targets
Production Market Share 2025

Figure 32. China Based Manufacturers 5N FPD Aluminum Sputtering Targets
Production Market Share 2025

Figure 33. Rest of World Based Manufacturers 5N FPD Aluminum Sputtering Targets
Production Market Share 2025

Figure 34. World 5N FPD Aluminum Sputtering Targets Production Value by Type,
(USD Million), 2021 & 2025 & 2032

Figure 35. World 5N FPD Aluminum Sputtering Targets Production Value Market Share
by Type in 2025

Figure 36. Planar Aluminum Target

Figure 37. Rotating Aluminum Target

Figure 38. World 5N FPD Aluminum Sputtering Targets Production Market Share by
Type (2021-2032)

Figure 39. World 5N FPD Aluminum Sputtering Targets Production Value Market Share
by Type (2021-2032)

Figure 40. World 5N FPD Aluminum Sputtering Targets Average Price by Type
(2021-2032) & (US\$/Kg)

- Figure 41. World 5N FPD Aluminum Sputtering Targets Production Value by Compatible Display Line Generation, (USD Million), 2021 & 2025 & 2032
- Figure 42. World 5N FPD Aluminum Sputtering Targets Production Value Market Share by Compatible Display Line Generation in 2025
- Figure 43. for G6 and Below Lines
- Figure 44. for G7–G8.6 Lines
- Figure 45. for G10 and Above Lines
- Figure 46. World 5N FPD Aluminum Sputtering Targets Production Market Share by Compatible Display Line Generation (2021-2032)
- Figure 47. World 5N FPD Aluminum Sputtering Targets Production Value Market Share by Compatible Display Line Generation (2021-2032)
- Figure 48. World 5N FPD Aluminum Sputtering Targets Average Price by Compatible Display Line Generation (2021-2032) & (US\$/Kg)
- Figure 49. World 5N FPD Aluminum Sputtering Targets Production Value by Sales Channel, (USD Million), 2021 & 2025 & 2032
- Figure 50. World 5N FPD Aluminum Sputtering Targets Production Value Market Share by Sales Channel in 2025
- Figure 51. Direct Sales
- Figure 52. Distribution
- Figure 53. World 5N FPD Aluminum Sputtering Targets Production Market Share by Sales Channel (2021-2032)
- Figure 54. World 5N FPD Aluminum Sputtering Targets Production Value Market Share by Sales Channel (2021-2032)
- Figure 55. World 5N FPD Aluminum Sputtering Targets Average Price by Sales Channel (2021-2032) & (US\$/Kg)
- Figure 56. World 5N FPD Aluminum Sputtering Targets Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 57. World 5N FPD Aluminum Sputtering Targets Production Value Market Share by Application in 2025
- Figure 58. LCD
- Figure 59. OLED
- Figure 60. World 5N FPD Aluminum Sputtering Targets Production Market Share by Application (2021-2032)
- Figure 61. World 5N FPD Aluminum Sputtering Targets Production Value Market Share by Application (2021-2032)
- Figure 62. World 5N FPD Aluminum Sputtering Targets Average Price by Application (2021-2032) & (US\$/Kg)
- Figure 63. 5N FPD Aluminum Sputtering Targets Industry Chain
- Figure 64. 5N FPD Aluminum Sputtering Targets Procurement Model

Figure 65. 5N FPD Aluminum Sputtering Targets Sales Model

Figure 66. 5N FPD Aluminum Sputtering Targets Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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