

# Global Ultra-high Purity Aluminum Sputtering Target for FPD Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G4E45AA97980EN.html>

Date: June 2026

Pages: 122

Price: US\$ 4,480.00 (Single User License)

ID: G4E45AA97980EN

## Abstracts

The global Ultra-high Purity Aluminum Sputtering Target for FPD market size is expected to reach \$ 147 million by 2032, rising at a market growth of 2.8% CAGR during the forecast period (2026-2032).

Ultra-high Purity Aluminum Sputtering Target for FPD refers to an aluminum-based sputtering target made from high-purity or ultra-high-purity aluminum 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 flat panel display manufacturing. This product is 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 Ultra-high Purity Aluminum Sputtering Targets for FPD reached 2,099.55 tons, with an average selling price of USD 53.02 per kilogram.

Ultra-high Purity Aluminum Sputtering Targets for FPD are key vacuum coating materials used in LCD and OLED panel manufacturing, mainly for forming metal conductive layers, reflective layers, electrode layers, wiring layers, and related functional films. Industry demand is closely related to LCD and OLED panel input area, production line utilization rates, panel size structure, OLED penetration growth, and panel makers' requirements for process stability. LCD applications are mainly characterized by mature mass production and cost control, with large demand but high price sensitivity. OLED applications have higher requirements for target purity, particle

control, defect control, sputtering stability, and batch-to-batch consistency, resulting in higher qualification barriers and higher product added value.

In terms of product structure, Ultra-high Purity Aluminum Sputtering Targets for FPD can be classified by structural form 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 multiple types of coating equipment. Rotary aluminum targets offer higher material utilization and are mainly used in certain large-area and continuous coating scenarios. By purity grade, these products are generally dominated by 5N high-purity aluminum targets, which can meet the requirements of mainstream LCD and most OLED panel processes. For high-end OLED products, especially processes with stricter requirements for low particles, low defects, and long-term stability, 5N5 aluminum targets and products with higher control standards may be used.

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

In terms of the industry chain, the upstream segment mainly includes 5N and 5N5 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. On the manufacturing side, companies usually adopt a model combining 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 have relatively lower gross margins due to price competition, while 5N5 products for OLED, especially high-end OLED applications, have relatively higher gross margins.

Overall, the Ultra-high Purity Aluminum Sputtering Target for FPD 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, delivery stability, and large-volume consistency. In the OLED segment, the core competitive factors are low particles, low defects, high purity, high stability, and long-term customer qualification. Future industry growth will mainly come from increasing OLED panel penetration and process upgrades in high-end OLED, while the LCD segment will mainly focus on stock replacement, supply chain localization, and cost optimization.

This report studies the global Ultra-high Purity Aluminum Sputtering Target for FPD production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ultra-high Purity Aluminum Sputtering Target for FPD 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 Ultra-high Purity Aluminum Sputtering Target for FPD that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ultra-high Purity Aluminum Sputtering Target for FPD total production and demand, 2021-2032, (tons)

Global Ultra-high Purity Aluminum Sputtering Target for FPD total production value, 2021-2032, (USD Million)

Global Ultra-high Purity Aluminum Sputtering Target for FPD production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (tons), (based on production site)

Global Ultra-high Purity Aluminum Sputtering Target for FPD consumption by region & country, CAGR, 2021-2032 & (tons)

U.S. VS China: Ultra-high Purity Aluminum Sputtering Target for FPD domestic production, consumption, key domestic manufacturers and share

Global Ultra-high Purity Aluminum Sputtering Target for FPD production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (tons)

Global Ultra-high Purity Aluminum Sputtering Target for FPD production by Type, production, value, CAGR, 2021-2032, (USD Million) & (tons)

Global Ultra-high Purity Aluminum Sputtering Target for FPD production by Application, production, value, CAGR, 2021-2032, (USD Million) & (tons)

This report profiles key players in the global Ultra-high Purity Aluminum Sputtering Target for FPD 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 Ultra-high Purity Aluminum Sputtering Target for FPD 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 Ultra-high Purity Aluminum Sputtering Target for FPD Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ultra-high Purity Aluminum Sputtering Target for FPD Market, Segmentation by Type:

5N

5N5

Global Ultra-high Purity Aluminum Sputtering Target for FPD Market, Segmentation by Target Structure:

Planar Aluminum Target

Rotating Aluminum Target

Global Ultra-high Purity Aluminum Sputtering Target for FPD Market, Segmentation by Sales Channel:

Direct Sales

Distribution

Global Ultra-high Purity Aluminum Sputtering Target for FPD 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 Ultra-high Purity Aluminum Sputtering Target for FPD market?
2. What is the demand of the global Ultra-high Purity Aluminum Sputtering Target for FPD market?
3. What is the year over year growth of the global Ultra-high Purity Aluminum Sputtering Target for FPD market?
4. What is the production and production value of the global Ultra-high Purity Aluminum Sputtering Target for FPD market?
5. Who are the key producers in the global Ultra-high Purity Aluminum Sputtering Target for FPD market?

6. What are the growth factors driving the market demand?

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