

Global Liquid Crystal Display Targets Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid Crystal Display Targets market size is expected to reach \$ 1732 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

TFT-LCD display sputtering targets are critical electronic materials used in physical vapor deposition processes for LCD panel manufacturing. They are sputtered onto glass substrates or functional layers to form transparent conductive electrodes, metal wiring layers, barrier layers, contact layers, and oxide semiconductor films. Typical materials include ITO, IZO, IGZO, molybdenum, molybdenum alloys, aluminum, aluminum alloys, copper, titanium, chromium, silicon, and other oxide or metal targets. Key performance requirements include high purity, high density, uniform grain structure, low oxygen and impurity levels, reliable bonding, low particle generation, low arcing, stable sputtering rate, film-thickness uniformity, and compatibility with large-generation TFT-LCD panel production lines.

TFT-LCD display sputtering targets are high-value consumable electronic materials used in LCD panel manufacturing. They are deposited through magnetron sputtering to form transparent conductive electrodes, metal wiring layers, barrier layers, contact layers, and oxide semiconductor films on glass substrates or functional layers. Unlike PVD equipment, sputtering targets are continuously consumed as panel production lines operate. Therefore, customer qualification, stable mass supply, low-particle performance, bonding reliability, and recycling capability are central competitive factors in this market.

From a material perspective, ITO and IZO targets remain the highest-value categories because they are used for transparent conductive films and pixel electrodes.

Molybdenum, molybdenum alloys, aluminum, copper, titanium, chromium, and other metal targets are mainly used in TFT gate lines, source/drain lines, barrier layers, adhesion layers, and auxiliary conductive layers. As LCD production shifts toward G8.5, G10.5, and G11 high-generation fabs, suppliers must meet stricter requirements for target size, density, grain uniformity, bonding strength, thermal stability, sputtering consistency, and particle control.

From the supply side, Japanese suppliers continue to lead in high-end oxide targets, ITO / IZO materials, material formulation, long-term customer qualification, and global supply-chain reliability. JX Advanced Metals, ULVAC, Tosoh, Mitsui, Sumitomo Chemical, and Plansee represent the core international supplier base. At the same time, Chinese suppliers are gaining share as global LCD panel capacity becomes increasingly concentrated in mainland China. Konfoong Materials, Longhua Technology / Crystal Union, Acetron, Omat Advanced Materials, and Wuhu Yingri Technology are becoming important players in the localization of display sputtering targets.

From the demand side, the LCD panel industry is already mature, and growth in traditional TV, monitor, and notebook panels has slowed. However, large-size LCD TVs, Mini LED-backlit LCDs, automotive displays, industrial and medical displays, commercial displays, and high-refresh-rate IT panels continue to support stable target consumption. The market is unlikely to show explosive growth, but it should remain resilient due to replacement demand, high-generation line consumption, and material upgrades.

Future competition will shift from basic target production capability to the ability to consistently supply mass-production-grade targets for high-generation LCD fabs. Key requirements include large target size, high purity, low particle generation, low nodule formation, low arcing, long target life, and reliable bonding. For suppliers, the real barriers are not limited to material processing. They also include panel-maker qualification cycles, batch-to-batch consistency, recycling loops, raw-material cost control, bonding and refurbishment services, and long-term relationships with customers such as BOE, TCL CSOT, HKC, LG Display, AUO, Innolux, and Tianma.

This report studies the global Liquid Crystal Display Targets production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid Crystal Display 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 Liquid Crystal Display Targets that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Liquid Crystal Display Targets total production and demand, 2021-2032, (K Units)

Global Liquid Crystal Display Targets total production value, 2021-2032, (USD Million)

Global Liquid Crystal Display Targets production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Liquid Crystal Display Targets consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Liquid Crystal Display Targets domestic production, consumption, key domestic manufacturers and share

Global Liquid Crystal Display Targets production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Liquid Crystal Display Targets production by Material Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Liquid Crystal Display Targets production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Liquid Crystal Display 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 JX Advanced Metals Corporation, ULVAC, Inc., Tosoh Corporation, Mitsui Mining & Smelting Co., Ltd., Sumitomo Chemical Co., Ltd., Plansee SE, Konfoong Materials International Co., Ltd., Longhua Technology Group, Fujian Acetron New Materials Co., Ltd., Omat Advanced Materials Co., Ltd., 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 Liquid Crystal Display Targets market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Material 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 Liquid Crystal Display Targets Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid Crystal Display Targets Market, Segmentation by Material Type:

ITO and IZO Targets

Molybdenum and Molybdenum Alloy Targets

Aluminum and Aluminum Alloy Targets

Copper and Copper Alloy Targets

Titanium, Chromium and Other Metal Targets

Global Liquid Crystal Display Targets Market, Segmentation by Target Form:

Planar Targets

Rotary Targets

Bonded Target Assemblies

Segmented / Multi-piece Large Targets

Global Liquid Crystal Display Targets Market, Segmentation by LCD Generation Line:

G10.5 / G11 Lines

G8.5 / G8.6 Lines

G6 Lines

G5 / G5.5 Lines

G4.5 and Below

Global Liquid Crystal Display Targets Market, Segmentation by Application:

LCD TV Panels

Monitor and Notebook Panels

Automotive Displays

Industrial, Medical and Commercial Displays

Tablet and Mobile LCD Panels

Companies Profiled:

JX Advanced Metals Corporation

ULVAC, Inc.

Tosoh Corporation

Mitsui Mining & Smelting Co., Ltd.

Sumitomo Chemical Co., Ltd.

Plansee SE

Konfoong Materials International Co., Ltd.

Longhua Technology Group

Fujian Acetron New Materials Co., Ltd.

Omat Advanced Materials Co., Ltd.

Materion Corporation

Vital Materials

Wuhu Yingri Technology Co., Ltd.

Thintech Materials Technology Co., Ltd.

Umicore Metal Deposition Solutions

Key Questions Answered:

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

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