

# Global Thin-film Single-electrode Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Thin-film Single-electrode market size is expected to reach \$ 3447 million by 2032, rising at a market growth of 11.6% CAGR during the forecast period (2026-2032).

Thin-film single-electrode refers to a device architecture in which an ultra-thin functional material layer (typically nanometers to micrometers thick) is deposited onto a conductive substrate and operates with only one active electrode layer exposed, commonly used in thin-film batteries, sensors, electrochemical devices, and certain semiconductor or energy-storage applications. Unlike conventional multilayer cells, the single-electrode configuration simplifies structure, reduces material consumption, and enables miniaturization for microelectronics, MEMS, and integrated energy devices. The supply chain begins with upstream materials (high-purity metals, metal oxides, lithium compounds, conductive substrates such as stainless steel or silicon wafers, and specialty target materials for sputtering or evaporation), followed by midstream thin-film deposition processes (physical vapor deposition (PVD), chemical vapor deposition (CVD), atomic layer deposition (ALD), sputtering, or electrochemical deposition), then patterning and integration (photolithography, etching, encapsulation), and finally downstream integration into end applications such as microbatteries, biosensors, RF components, IoT devices, and semiconductor systems. The value concentration typically lies in precision deposition equipment, material purity control, and device integration know-how rather than bulk material volume. In 2025, global output of thin-film single-electrodes reached approximately 62 million m<sup>2</sup>, supported by an installed production capacity of around 86 million m<sup>2</sup> annually. Average selling prices ranged between USD 21 and USD 45 per m<sup>2</sup>, with industry gross margins averaging about 31%.

This report studies the global Thin-film Single-electrode production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thin-film Single-electrode 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 Thin-film Single-electrode that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Thin-film Single-electrode total production and demand, 2021-2032, (K Sqm)

Global Thin-film Single-electrode total production value, 2021-2032, (USD Million)

Global Thin-film Single-electrode production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Thin-film Single-electrode consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Thin-film Single-electrode domestic production, consumption, key domestic manufacturers and share

Global Thin-film Single-electrode production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Thin-film Single-electrode production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Thin-film Single-electrode production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Thin-film Single-electrode 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 Umicore (Belgium), Materion (USA), Plansee Group (Austria), Heraeus (Germany), Proterial (Japan), JX Advanced Metals (Japan), Sumitomo (Japan), Mitsui (Japan), TANAKA (Japan), Linde (Ireland), 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 Thin-film Single-electrode market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) 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 Thin-film Single-electrode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Thin-film Single-electrode Market, Segmentation by Type:

Metal-based Film

Carbon-based Film

Polymer-based Film

#### Global Thin-film Single-electrode Market, Segmentation by Deposition:

Physical Vapor Deposition (PVD)

Chemical Vapor Deposition (CVD)

## Electrochemical Deposition (ECD)

### Global Thin-film Single-electrode Market, Segmentation by Application:

Energy Storage

Semiconductor

Photovoltaic

Others

### Companies Profiled:

Umicore (Belgium)

Materion (USA)

Plansee Group (Austria)

Heraeus (Germany)

Proterial (Japan)

JX Advanced Metals (Japan)

Sumitomo (Japan)

Mitsui (Japan)

TANAKA (Japan)

Linde (Ireland)

### Key Questions Answered:

1. How big is the global Thin-film Single-electrode market?
2. What is the demand of the global Thin-film Single-electrode market?
3. What is the year over year growth of the global Thin-film Single-electrode market?
4. What is the production and production value of the global Thin-film Single-electrode market?
5. Who are the key producers in the global Thin-film Single-electrode market?
6. What are the growth factors driving the market demand?

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