

# Global LSM Cathode Material for Fuel Cell Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global LSM Cathode Material for Fuel Cell market size is expected to reach \$ 113 million by 2032, rising at a market growth of 12.2% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of LSM Cathode Material for Fuel Cell is estimated at approximately 185 tons, with an average global market price of around USD 265/kg. The gross margin of major manufacturers is generally around 35%-50%.

LSM Cathode Material for Fuel Cell is a perovskite-type inorganic functional ceramic material mainly based on lanthanum strontium manganite (LSM), with a typical chemical composition expressed as  $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ . It is primarily used as the air electrode/cathode material in solid oxide fuel cell. The material offers good electronic conductivity, thermal stability, chemical compatibility, and oxygen reduction reaction activity under medium- to high-temperature conditions. It can match electrolyte systems such as yttria-stabilized zirconia, making it one of the more mature and widely used cathode materials in traditional high-temperature SOFC. The product is usually supplied in the form of LSM cathode powder, cathode slurry, spray powder, or LSM composite powder, and can be used in electrode preparation processes such as screen printing, spraying, coating, and sintering.

Its upstream mainly includes lanthanum oxide, strontium carbonate, manganese oxide, doping additive, dispersant, binder, solvent, and process equipment for powder synthesis, grinding, granulation, sintering, and slurry preparation. Its downstream applications mainly include solid oxide fuel cell, solid oxide electrolysis cell, high-temperature sensor, and electrochemical R&D testing. This product directly affects the cathode polarization resistance, oxygen reduction efficiency, thermal expansion

matching, long-term stability, and cell output performance of fuel cell. It is a key functional material in SOFC cell and stack manufacturing, and is especially suitable for power generation system, electrolytic hydrogen production, high-temperature sensing, and R&D testing.

This report studies the global LSM Cathode Material for Fuel Cell production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for LSM Cathode Material for Fuel Cell 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 LSM Cathode Material for Fuel Cell that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global LSM Cathode Material for Fuel Cell total production and demand, 2021-2032, (Tons)

Global LSM Cathode Material for Fuel Cell total production value, 2021-2032, (USD Million)

Global LSM Cathode Material for Fuel Cell production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global LSM Cathode Material for Fuel Cell consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: LSM Cathode Material for Fuel Cell domestic production, consumption, key domestic manufacturers and share

Global LSM Cathode Material for Fuel Cell production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global LSM Cathode Material for Fuel Cell production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global LSM Cathode Material for Fuel Cell production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global LSM Cathode Material for Fuel Cell 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 Nexceris, Kceracell, Oerlikon Metco, CerPoTech, KCM Corporation, American Elements, Inframat Advanced Materials, Linde Advanced Material Technologies, Lorad Chemical, H<sub>2</sub>gan<sup>2</sup>s, 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 LSM Cathode Material for Fuel Cell 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 LSM Cathode Material for Fuel Cell Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global LSM Cathode Material for Fuel Cell Market, Segmentation by Type:

Pure-Phase LSM Type

LSM-Zirconia Composite Type

## LSM-Ceria Composite Type

### Global LSM Cathode Material for Fuel Cell Market, Segmentation by Form:

Powder

Slurry

### Global LSM Cathode Material for Fuel Cell Market, Segmentation by Application:

Power Generation System

Electrolytic Hydrogen Production

High-Temperature Sensing

R&D Testing

Other

### Companies Profiled:

Nexceris

Kceracell

Oerlikon Metco

CerPoTech

KCM Corporation

American Elements

Inframat Advanced Materials

Linde Advanced Material Technologies

Lorad Chemical

H?gan?s

Xiamen TOB New Energy Technology

Ningbo SOFCMAN Energy Technology

Qingdao Terio Corporation

**Key Questions Answered:**

1. How big is the global LSM Cathode Material for Fuel Cell market?
2. What is the demand of the global LSM Cathode Material for Fuel Cell market?
3. What is the year over year growth of the global LSM Cathode Material for Fuel Cell market?
4. What is the production and production value of the global LSM Cathode Material for Fuel Cell market?
5. Who are the key producers in the global LSM Cathode Material for Fuel Cell market?
6. What are the growth factors driving the market demand?

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