

Global Imidodisulfonyl Fluoride (LiFSI) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Imidodisulfonyl Fluoride (LiFSI) market size is expected to reach \$ 5253 million by 2032, rising at a market growth of 23.0% CAGR during the forecast period (2026-2032).

Imidodisulfonyl Fluoride in the LiFSI battery-material context usually refers to Lithium bis(fluorosulfonyl)imide, abbreviated as LiFSI. It is a fluorinated lithium salt used in lithium-ion battery electrolytes as an electrolyte additive, co-salt, or in some high-performance formulations as a main lithium salt. LiFSI is valued for its high ionic conductivity, good thermal stability, low-temperature performance, and ability to help form more stable electrode interphases, thereby improving power performance, cycle life, and battery stability. In 2025, global Imidodisulfonyl Fluoride (LiFSI) production reached approximately 22.69 K MT, with an average global market price of around US\$ 52 per kg.

LiFSI is moving from a high-end specialty additive toward broader use in advanced electrolyte systems, driven by fast-charging batteries, high-nickel cathodes, silicon-based anodes, low-temperature applications, energy storage batteries, and semi-solid or solid-state battery development. Compared with conventional LiPF₆, LiFSI offers advantages in conductivity, low-temperature behavior, thermal stability, and interface durability, but it also faces barriers such as high production complexity, strict impurity control, cost pressure, aluminum current collector corrosion management, and long qualification cycles with battery and electrolyte customers. The competitive focus is shifting toward high-purity synthesis, fluorochemical integration, continuous production, low moisture and low acid control, metal impurity reduction, liquid-delivery formats, and customer-specific electrolyte formulation support. As capacity expands among Japanese, European, Korean, and Chinese suppliers, LiFSI is expected to become

more cost-competitive, while premium grades will remain differentiated by purity, consistency, application validation, and compatibility with next-generation battery chemistries. Nippon Shokubai also notes rapid demand growth linked to lithium-ion batteries and electric vehicles, supporting the strategic importance of LiFSI in the battery materials chain.

This report studies the global Imidodisulfonyl Fluoride (LiFSI) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Imidodisulfonyl Fluoride (LiFSI) 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 Imidodisulfonyl Fluoride (LiFSI) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Imidodisulfonyl Fluoride (LiFSI) total production and demand, 2021-2032, (Tons)

Global Imidodisulfonyl Fluoride (LiFSI) total production value, 2021-2032, (USD Million)

Global Imidodisulfonyl Fluoride (LiFSI) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Imidodisulfonyl Fluoride (LiFSI) consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Imidodisulfonyl Fluoride (LiFSI) domestic production, consumption, key domestic manufacturers and share

Global Imidodisulfonyl Fluoride (LiFSI) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Imidodisulfonyl Fluoride (LiFSI) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Imidodisulfonyl Fluoride (LiFSI) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Imidodisulfonyl Fluoride (LiFSI) 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 NIPPON SHOKUBAI, Chunbo, Arkema, Guangzhou Tianci Materials Technology, Zhejiang Yongtai Technology, Do-Fluoride New Materials, Shenzhen Capchem Technology, Shandong Weipu New Material Technology, Rongcheng Qing Mu High-Tech Materials, Jiangsu HSC New Energy 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 Imidodisulfonyl Fluoride (LiFSI) 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 Imidodisulfonyl Fluoride (LiFSI) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Imidodisulfonyl Fluoride (LiFSI) Market, Segmentation by Type:

Industrial Grade

Battery Grade

Global Imidodisulfonyl Fluoride (LiFSI) Market, Segmentation by Product Form:

Powder

Liquid

Global Imidodisulfonyl Fluoride (LiFSI) Market, Segmentation by Purity:

Purity?99%

Purity?99.9%

Purity?99.99%

Global Imidodisulfonyl Fluoride (LiFSI) Market, Segmentation by Application:

Lithium Battery Electrolyte

Other

Companies Profiled:

NIPPON SHOKUBAI

Chunbo

Arkema

Guangzhou Tianci Materials Technology

Zhejiang Yongtai Technology

Do-Fluoride New Materials

Shenzhen Capchem Technology

Shandong Weipu New Material Technology

Rongcheng Qing Mu High-Tech Materials

Jiangsu HSC New Energy Materials

Shanghai Chemspec Corporation

Anhui Meisenbao Technology

Key Questions Answered:

1. How big is the global Imidodisulfonyl Fluoride (LiFSI) market?
2. What is the demand of the global Imidodisulfonyl Fluoride (LiFSI) market?
3. What is the year over year growth of the global Imidodisulfonyl Fluoride (LiFSI) market?
4. What is the production and production value of the global Imidodisulfonyl Fluoride (LiFSI) market?
5. Who are the key producers in the global Imidodisulfonyl Fluoride (LiFSI) market?
6. What are the growth factors driving the market demand?

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