SCOTTS
INTERNATIONAL

Fluorspar Market Size and Share - Outlook Report, Forecast Trends and Growth Analysis (2025-2034)

Market Report | 2025-08-11 | 178 pages | EMR Inc.

AVAILABLE LICENSES:

- Single User License $3599.00
- Five User License $4249.00
- Corporate License $5099.00

Report description:

The global fluorspar market reached a volume of 7.69 MMT in 2024 . The industry is expected to grow at a CAGR of 2.80% during the forecast period of 2025-2034 to reach a volume of 10.14 MMT by 2034 .

The fluorspar market is undergoing a transformation, driven by policy support, green chemistry goals, and a renewed demand for critical minerals. Once confined to niche metallurgical processes, fluorspar, especially in its acidspar form, has become integral to new supply chains in lithium-ion batteries, hydrofluoric acid (HF), and semiconductors. China remains the dominant market, producing nearly 60% of the world's fluorspar in 2023, however, emerging suppliers like Vietnam, Mexico, and South Africa are gaining ground.

Government-backed initiatives are shaping new fluorspars sourcing dynamics. For example, the U.S. Geological Survey added fluorspar to its critical minerals list in 2022, prompting domestic exploration incentives under the Bipartisan Infrastructure Law. Similarly, the European Raw Materials Alliance is pushing strategic autonomy by backing fluorspar recovery from industrial waste streams. In India, the Geological Survey is funding mapping of new fluorspar belts across Gujarat and Rajasthan.

Downstream fluorspar demand is accelerating as well. Japan's METI has launched trials to recycle synthetic fluorspar from spent fluorochemicals. Meanwhile, AI-integrated beneficiation techniques have given rise to commercial-grade fluorspar from low-grade ores. These developments are reshaping how fluorspar is sourced, refined, and reused.

While traditional segments like steel and aluminium still drive volume, the major opportunity for growth lies in developing novel applications like HF fuel cells, fire-resistant electronics, and closed-loop chemical systems. This shift is prompting fresh investment in traceability technology and ESG-certified sourcing, which is key for B2B buyers prioritising sustainable procurement in sensitive value chains.

Key Trends and Recent Developments

May 2025

Globex Mining Enterprises Inc. acquired a 100% stake in a 117.06-hectare claim block at the Carp Fluorspar Property in Nevada. Globex's position in the fluorspar market, which is essential for sectors dependent on the manufacture of aluminium and hydrofluoric acid, may be improved by this acquisition and the encouraging exploration findings.

May 2025

In order to create the conditions necessary to manufacture acid-grade fluorspar at Monte Muambe, Altona Rare Earths PLC reported the results of fluorspar metallurgical testing as well as the finding of additional fluorspar occurrences inside the mining license.

December 2024

The purchase of heavy mining equipment essential to the development of Ares Strategic Mining Inc.'s flagship fluorspar project was disclosed. Ares has become an ideal choice for supplying vital minerals to domestic firms in nuclear energy, electronics, and other vital fields as it owns the only fluorspar mine in the United States.

February 2024

In order to revive and develop the St. Lawrence fluorspar mine, which closed in February 2022, the new owners committed to investing USD 100 million over the following three years.

Circular Fluorspar Recovery Gains Traction

Recycling fluorspar from fluorinated industrial waste has emerged to be a key trend boosting the fluorspars market development. In Germany, Koura and Fluorchem launched pilot facilities recovering fluorspar from aluminium fluoride and refrigerant byproducts. These systems use plasma arc separation and closed-loop acid treatment to reclaim calcium fluoride with a significant purity rate. EU funding under the Horizon Europe Programme is fuelling such ventures, especially as landfill bans on fluorinated waste expand. These circular systems not only reduce mining dependence but also slash emissions from raw acid spar processing, appealing to industries under regulatory pressure to lower Scope 3 emissions.

Rise of Fluorspar in Battery-Grade Lithium Production

With lithium demand soaring, new extraction methods like Lithium Fluoride Salt Electrolysis (LFSE) are gaining traction in the fluorspars market. ?For example, Canada's Li-Metal initiated trials using acidspar-derived fluorine compounds in anode purification. This aligns with growing interest in solid-state and fluoride-ion batteries, which require stable fluorine sources. Governments in the European Union and Canada have included fluorspar in EV battery supply chain roadmaps. These use-cases are diversifying fluorspar's buyer base beyond metallurgy, bringing new urgency to develop high-purity, low-silica acidspar deposits with consistent traceability profiles for energy storage firms.

Automated Beneficiation Technologies Optimise Output

Legacy beneficiation of fluorspar is resource-intensive. New-age plants in Vietnam and Kazakhstan are now deploying AI-based sensor sorting, hydrocyclone classifiers, and digital twins to optimise yield, boosting the fluorspars market dynamics. Masan

High-Tech Materials launched an AI-integrated control centre that reduce flotation chemical use and improve grade consistency. Automation is enhancing purity, crucial for specialty-grade acidspar. Backed by World Bank green finance schemes, such digital beneficiation is helping previously marginal mines become competitive. It also opens access to ESG-conscious Western buyers demanding responsibly sourced fluorine inputs for consumer goods and pharma supply chains.

Strategic Stockpiling by Governments and Industries

Strategic reserves of fluorspar are emerging as a hedge against trade volatility. Recently, the Indian Ministry of Mines approved INR 34,300 crore proposal to build national stockpiles of critical minerals, indirectly accelerating the fluorspar market value. Meanwhile, Japan's JOGMEC is working with private firms to stockpile acid-grade fluorspar for up to six months' consumption. Such efforts reflect rising concern over China's dominance and supply chain weaponisation. Industries like semiconductor and hydrofluoric acid manufacturing are proactively signing offtake deals and stocking reserves.

Specialty Applications Expand in Fire Safety and Optics

New R&D is pushing fluorspar beyond traditional uses. Specialty-grade fluorspar is now used in fire-retardant polymers, UV-grade optical lenses, and nuclear reactor shielding. For example, France's Saint-Gobain developed fluorspar-based polymer blends for EV battery casings that resist thermal runaway, impacting the fluorspars market development. These niche applications require ultra-pure metaspar, creating demand for specialised mining and processing lines. As fire-safety norms tighten across sectors like aviation, defence, and consumer electronics, these advanced uses are pushing fluorspar into new high-margin industrial verticals.

Global Fluorspar Industry Segmentation

The EMR's report titled "Global Fluorspar Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Product Type

- Acidspar
??- Aluminium Production
??- Hydrofluoric Acid Production
??- Others

- Metaspar

??- Steel Production
??- Cement Production
??- Ceramic
??- Others

Key Insight: The fluorspar market can be segmented into acidspar and metaspar, each boosted by distinct value drivers. Acidspar dominates due to its criticality in chemical manufacturing and aluminium fluoride applications. It is increasingly favoured in B2B sourcing contracts for its consistency and utility in HF pathways. Metaspar, while traditionally used in steel, is now gaining momentum across defence, aerospace, and thermal applications, driven by innovation in processing and composite use. Both segments are witnessing shifts in sourcing priorities as buyers seek reliability, ESG compliance, and geopolitical diversification.

Market Breakup by Application

- Aluminium Production
- Steel Production
- Hydrofluoric Acid Production
- Lithium-ion Battery
- Others

Key Insight: Across applications, lithium-ion batteries are emerging as the dominant application in the fluorspars market, with high-purity demands. Aluminium and steel sectors continue to represent major volume consumers, especially for foundry-grade metaspar. Optical, ceramic, and niche fire-safety applications are carving out high-margin demand for ultra-refined fluorspar. Overall, evolving use-cases are diversifying application risk and shifting fluorspar procurement from spot trades to structured, traceable supply models aligned with net-zero strategies.

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Key Insight: Regionally, Asia Pacific dominates fluorspar production with integrated supply chains and growing downstream applications. Europe leads in policy-led demand growth, with a strong push toward recycling and traceable sourcing. North America is ramping up exploration and refining under critical mineral policies. Latin America is tapping underutilised metaspar reserves with processing technology. Meanwhile, the Middle East and Africa are positioning as future exporters, with South Africa and Morocco attracting foreign mining investments. Each region's trajectory is being shaped by a mix of policy, tech innovation, and strategic industrial priorities.

Global Fluorspar Market Share

By Product Type, Acidspar Accounts for the Dominant Share of the Market

Acidspar is the highest grade of fluorspar and contains at least 97% calcium fluoride. It is the most sought-after type in the fluorspars market due to its high purity level and is primarily used in the chemical sector to produce hydrofluoric acid (HF), which is a precursor to almost all fluorine compounds, including refrigerants, polymers (like PTFE, Teflon), and a wide range of industrial and pharmaceutical chemicals. The demand for acidspar is driven by its essential role in these high-value applications, making it hold the highest share in the fluorspar market.

As per the fluorspars market report, metaspar is growing rapidly in terms of market share. Metspar, or metallurgical spar, contains a lower concentration of calcium fluoride, typically between 60% and 85%. Although it is of a lower grade compared to acidspar, metspar is crucial in the steel-making process as a flux to remove impurities and it helps in the production of cleaner, stronger steel and is also used in the manufacture of aluminium.

By Application, Lithium Ion Battery Continues to be Dominant in the Market

The lithium-ion battery segment occupies a significant share of the fluorspars market. The rising popularity of electric vehicles is increasing the demand for lithium-ion batteries, hence propelling the market growth. Moreover, the increasing number of off-grid installations and power plants is expanding the use of lithium-ion batteries, which is expected to aid the segment's growth. The surging demand for power backup in the medical sector as well as the usage of lithium-ion batteries in various consumer electronics owing to the rising demand for superior electronic devices is also boosting the segment share.

The steel production segment is anticipated to witness sizeable growth in the fluorspar industry in the coming years. As the primary application of metaspar is attributed to its use as flux in steelmaking, its demand is rapidly increasing. It is also used in iron smelting, which is extensively used in the steel sector. Hence, the rising demand for steel in major end-use sectors such as automotive, construction, and oil and gas, among others, is expected to fuel the market growth. Moreover, the introduction of various favourable government initiatives to increase the production of steel is augmenting the segment growth. In addition, the rising demand for steel in the infrastructure sector for low-maintenance and cost-effective construction is boosting the segment growth.

Global Fluorspar Market Regional Analysis

By Region, Asia Pacific Holds the Leading Position of the Market

The demand for fluorspar in the Asia Pacific region has been growing due to several factors that align with the region's industrial and economic activities. The production of hydrofluoric acid (HF) for the manufacture of refrigerants, polymers (like polytetrafluoroethylene, PTFE, or Teflon), and other fluorinated compounds is a major driver of the demand. The Asia Pacific region, led by China, is a significant producer of these chemicals, which are essential for various applications including in the automotive, electronics, and consumer goods sectors. Asia Pacific countries are undergoing rapid urbanisation and industrialisation, leading to extensive infrastructure and construction projects, which, in turn, boost the demand for steel, cement, and aluminium, indirectly increasing the need for fluorspar in these sectors.

Europe is emerging as the fastest-growing fluorspar market due to its focus on critical minerals independence. The EU Critical Raw Materials Act has placed fluorspar on the priority list, unlocking funds for exploration and recycling. European buyers are increasingly seeking traceable, low-carbon fluorspar inputs for use in pharmaceuticals, optics, and energy storage. B2B partnerships are forming under circular economy mandates to reduce primary mining dependence. As ESG and green technology accelerate across the continent, the regional fluorspar ecosystem is scaling both in policy relevance and industrial uptake.

Competitive Landscape

The fluorspar market players are focusing on vertical integration, linking mining with chemical production, and digitising beneficiation to increase output purity. Strategic partnerships with battery, pharma, and defence players are emerging as a new norm.

Fluorspar companies are adopting traceability technology like blockchain-based mineral tracking and low-emission refining techniques to stay ahead in ESG audits. M&A activity is rising in Vietnam, Mexico, and Africa, where small miners are acquiring tech firms to become certified suppliers. Circular recovery, battery-grade demand, beneficiation technology, stockpiling strategies, and specialty applications are reshaping the fluorspar market from commodity-driven to innovation-led with heightened emphasis on traceability and quality control. For B2B buyers, this reshaped landscape offers more stable, ethically sourced options as players meet new quality and traceability thresholds.

Orbia Advance Corporation

Orbia Advance Corporation, established in 1953 and headquartered in Mexico City, operates fluorspar mining through its Koura division. It supplies acidspar globally for HF, batteries, and refrigerants. The firm is integrating carbon tracking into its supply chains and has opened a UK innovation hub to develop fluorinated materials for semiconductors and fire-safe polymers.

Masan Group Corporation

Masan Group Corporation, founded in 1996 and based in Ho Chi Minh City, Vietnam, owns the Nui Phao mine, one of the world's largest acidspar deposits. Masan has pioneered AI-enabled beneficiation and ESG-linked financing, supplying high-purity fluorspar to Europe and Japan.

Fluorsid S.p.A.

Fluorsid S.p.A., founded in 1969 in Cagliari, Italy, has emerged as a key acidspar refiner and downstream producer. With a presence in Norway and Switzerland, it focuses on low-emission refining and supplies fluorochemicals for EV batteries and optics. Fluorsid also runs traceability pilots under EU Circular Minerals Initiative.

Kenya Fluorspar Company Ltd

Established in 1971 and headquartered in Kimwarer, Kenya Fluorspar Company Ltd was a major acidspar producer until operations halted in 2016. In 2024, a UK-backed consortium announced a USD 35 million plan to restart mining, aiming to revitalise Kenya's role in the global fluorspar supply chain.

Other key players in the market are S.A.B. de C.V., Minersa Group, and China Kings Resources Group Co. Ltd., among others.

Key Features of the Report

- In-depth analysis of Global Fluorspar Market Size and forecast
- Comprehensive segmentation by product type, application, and region
- Market trends, drivers, and regulatory developments
- Competitive landscape and strategic company profiling
- Recent investments and infrastructure expansion impact
- Technological innovations and future market outlook

Why Choose Expert Market Research?

- Trusted insights backed by extensive primary research
- Actionable data for strategic decision-making
- Region-wise and product-specific analysis

Call to Action

Explore the latest trends shaping the Fluorspar Market 2025-2034 with our in-depth report. Gain strategic insights, future forecasts, and key market developments that can help you stay competitive. Download a free sample report or contact our team for customized consultation on Fluorspar Market trends 2025 .

Table of Contents:

SCOTTS INTERNATIONAL

Fluorspar Market Size and Share - Outlook Report, Forecast Trends and Growth Analysis (2025-2034)

Market Report | 2025-08-11 | 178 pages | EMR Inc.

To place an Order with Scotts International:
- - Print this form
- - Complete the relevant blank fields and sign
- - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	$3599.00
	Five User License	$4249.00
	Corporate License	$5099.00
	VAT	
	Total	

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*		Phone*	
First Name*		Last Name*	
Job title*			
Company Name*		EU Vat / Tax ID / NIP number*	
Address*		City*	
Zip Code*		Country*	
		Date	2026-03-02
		Signature	