

Antimony - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

Antimony Market Analysis

The Antimony Market size is estimated at 98.15 kilotons in 2025, and is expected to reach 105.76 kilotons by 2030, at a CAGR of 1.5% during the forecast period (2025-2030). Expansion is modest in volume terms, yet underlying shifts are substantial: China's September 2024 export controls disrupted global supply, driving prices to USD 22,000 per ton and triggering a 40% single-day price jump. Downstream sectors are responding by searching for diversified raw-material sources, investing in recycling, and accelerating R&D on antimony substitutes. Regulatory tightening in Europe is pressuring flame-retardant formulations, while rapid grid-scale battery deployment in Asia-Pacific is reinforcing demand. Energy-storage innovation, coupled with a resurgence in PET resin output, continues to lift consumption even as environmental scrutiny intensifies.

Global Antimony Market Trends and Insights

Growing demand from the plastic industry

Fire-safety rules in construction, automotive, and consumer electronics continue to move large polymer volumes toward antimony-based flame-retardant systems. PET producers still rely on antimony catalysts that deliver high reaction rates and favorable color even though antimony leaching exceeds California public-health goals in 40% of tested beverages. Regulatory pressure has not yet produced a cost-competitive catalyst alternative with similar performance, so global polymer lines are locked in for the medium term. The plastics sector, already holding 48% of antimony consumption, is therefore underpinning the baseline

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offtake and supporting incremental growth in the antimony market. Ongoing transition to circular packaging paradoxically lifts demand because recycled PET often requires additional antimony to preserve polymer quality.

Rapid grid-scale lead-acid battery expansion in Asia-Pacific

Utilities in China, India, and Southeast Asia are pairing intermittent renewables with familiar lead-acid systems that now incorporate optimized antimony-lead alloys to extend cycle life. Electro-acoustic charging and alloy tweaks have reduced maintenance and improved depth-of-discharge, making lead-acid competitive for certain grid roles. These projects boost regional antimony pull-through because each battery grid alloy typically contains 1%-6% antimony by weight. Spillover procurement in North America is emerging as utilities seek cost-effective long-duration storage, adding a further layer of structural demand to the antimony market.

Shift toward halogen-free flame retardants in Europe

European producers are phasing out brominated systems that rely on antimony synergy, replacing them with phosphorus-nitrogen chemistries. The European Chemicals Agency's SVHC list now encompasses 247 substances, intensifying scrutiny on antimony compounds and downstream halogenated partners. OEM preferences and eco-labels are cementing this transition, which structurally erodes antimony demand in the region over the long run, even though global markets still rely on halogen-Sb formulations.

Other drivers and restraints analyzed in the detailed report include:

PET resin boom boosting Sb-catalyst consumption / Rising demand in the electronics industry / EU-REACH toxicology compliance costs for Sb₂O₃ producers /

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

Antimony trioxide commanded 57% of 2024 volume, underpinning the largest slice of the antimony market size for chemicals used in flame-retardant masterbatches. Trioxide consumption climbs at a pace near the overall industry, sustaining leadership even under EU regulatory headwinds. Metal ingot and pentoxide streams remain oriented to specialized glass and battery uses, showing low growth yet stable cash-flow characteristics.

In contrast, the alloys segment-holding only 1.66% share-shows outsized momentum as antimony-modified Zn-Mg-Al coatings gain automotive acceptance. Pilot projects demonstrate corrosion-resistance and microstructural improvements that unlock lifespan benefits for exposed body panels. This niche should outpace base-market growth, offering premium margin potential and higher customer stickiness for suppliers that deliver tailored alloy chemistries within the antimony market.

Stibnite contributed 96.2% of mined feedstock in 2024, translating to the vast majority of the antimony market size at the raw-material level. Processing reliance on this single sulfide mineral concentrates geopolitical risk, given that dominant deposits lie in China, Russia, and Tajikistan. The ore generates arsenic-rich waste streams, elevating environmental-management costs worldwide.

The exploration of non-Chinese deposits is rising. United States Antimony Corporation's acquisition of 3,840 acres at Stibnite Creek in Alaska aims to underwrite domestic supply resilience. Similar diversification drives in Australia and Canada reflect a

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gradual pivot intended to dilute the stibnite concentration in the antimony market, laying groundwork for incremental security of supply over the decade.

The Antimony Market Report Segments the Industry by Type (Metal Ingot, Antimony Trioxide, and More), Ore Type (Stibnite and Others), Application (Flame Retardants, Batteries, and More), End-Use Industry (Plastics and Polymers, Automotive and Transportation, and More), and Geography (Asia-Pacific, North America, Europe, South America, and Middle East and Africa). The Market Forecasts are Provided in Terms of Volume (tons).

Geography Analysis

Asia-Pacific held 88% of antimony consumption in 2024, reflecting unmatched manufacturing depth in plastics, electronics, and batteries. Chinese export permits have upended regional trade flows; Japanese, South-Korean, and Indian buyers now lock in long-term contracts with alternative sources to hedge supply risk. Regional energy transitions add new structural demand for lead-acid storage and high-purity semiconductor compounds, keeping the antimony market on a modest yet consistent expansion path of 1.53% CAGR to 2030.

North America is smaller by volume yet strategically pivotal, importing 82% of antimony for defense and critical infrastructure. Approval of the Stibnite Mine plan in Idaho gives the United States its only permitted primary deposit, with an anticipated output of 148 million pounds across the life-of-mine. This project, alongside Alaskan claims, begins to re-shore part of the antimony market supply chain and could temper future import reliance.

Europe faces unique regulatory compression. REACH compliance costs and the shift toward halogen-free chemistry curb trioxide volumes, while high-performance glass, ceramics, and electronics preserve niche demand. Ongoing CoRAP evaluations inject uncertainty, making European buyers cautious about large-scale investments tied to antimony-based chemistries. Nonetheless, essential automotive and aerospace applications keep the region engaged in the global antimony market, with specialty segments offsetting losses in commoditized flame-retardant tonnage.

List of Companies Covered in this Report:

AMG (AMG Advanced Metallurgical Group N.V.) / Anhua Huayu Antimony Industry Co. / Belmont Metals / Campine NV / Guangxi Huayuan Metal Chemical Co. Ltd / Hsikwangshan Twinkling Star Co. Ltd / Jiefu Corporation / KOREAZINC / Lambert Metals International Limited / Mandalay Resources / Nihon Seiko Co. Ltd / Stibium Mining (Consolidated Murchison) / Suzuhiro Chemical Co. Ltd / Tri-Star Resources PLC / United States Antimony Corporation / Yiyang City Huachang Antimony Industry Co. Ltd / Yunnan Muli Antimony Industry Co. Ltd /

Additional Benefits:

The market estimate (ME) sheet in Excel format /
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