

Five Trusted Potassium Aluminium Fluoride Manufacturers in China 2026: Advancing Industrial Flux Materials

How Global Buyers Compare Potassium Aluminium Fluoride Suppliers for Quality, Particle Size and Industrial Performance

CALIFORNIA, CA, UNITED STATES, September 4, 2026 /EINPresswire.com/ -- Jiangsu, China — September 4, 2026 — [Sumetech Industry Co., Ltd.](#), a manufacturer of potassium aluminium fluoride in Jiangsu Province, is one of five China-based suppliers reviewed in this 2026 industrial flux update. The review addresses how PAF is used in aluminum casting and brazing, what distinguishes white and grey PAF, and what buyers should verify before qualifying a PAF producer.

What is potassium aluminium fluoride?

Potassium aluminium fluoride (PAF), also known as potassium fluoroaluminate, potassium aluminum tetrafluoroaluminate or potassium cryolite, is a flux material used widely by aluminum processors. In shorthand form, PAF products may be identified as KAIF, KAIF₄ or K₃AlF₆. Some European technical sheets use the German market term Kalium Aluminium Fluorid. Commercial descriptions include Potassium Aluminium Fluoride Flux, Potassium Aluminium Fluoride High Purity, and foundry flux potassium aluminum fluoride for casting operations.

The main ordering criteria are color and physical form. Buyers can choose [white PAF](#), grey PAF, Potassium Aluminium Fluoride Lump, Potassium Aluminium Fluoride Powder or Potassium Aluminium Fluoride Granular. Each form has a process role. Powder is often used where fast



Logo for Sumetech Industry Co., Ltd.

dispersion or mixing is required. Granular grades are easier to feed into furnaces. Lump material may be preferred for primary aluminum and remelting operations.

Market context for PAF producers

DataHorizon Research estimates the global potassium aluminum fluoride market at USD 1.76 billion in 2024 and projects it to reach USD 2.62 billion by 2033. The same forecast shows a compound annual growth rate of 4.8% from 2025 to 2033. Market definitions are not uniform: some sources measure only pure potassium fluoride, while others include the wider complex fluoride flux volumes used in metallurgy.

Trade data cited by Zaubas often place potassium aluminium fluoride under HS Code 38101090, a classification used for metal-surface pickling preparations and fluxes. PubChem/NIH lists potassium aluminum fluoride as CAS 60304-36-1 with a molecular weight of approximately 142.07 g/mol.

Why PAF matters in aluminum and abrasive processes

PAF is not an inert additive. In electrolytic aluminum smelting it lowers the melting temperature of alumina and can improve electrolyte conductivity. In aluminum alloy casting it is used for degassing, fluxing and slag separation. In brazing, PAF helps remove surface oxide from aluminum components such as battery water-cooling plates and air-conditioning radiators.

In abrasives, product documentation from Sumetech describes PAF as an active filler that can assist heat dissipation and self-sharpening. The company cites a possible 20-30% extension in grinding-wheel life. In glass and ceramics, PAF lowers firing temperatures and helps improve melt quality and surface characteristics. These functions explain why buyers search for high quality potassium aluminium fluoride for aluminum casting, brazing, abrasives and flux applications. Another important factor is high purity: white PAF grades are often linked to brazing and specialty processes, while grey PAF grades are associated with foundry flux and abrasive production.

Chinese production landscape: five companies in focus

The following five companies are not ranked. They are offered as a supply-side overview to help buyers identify the main regional and operational patterns in China's PAF industry. Data availability is not the same for every company, so buyers should verify specifications and certifications directly before purchase.

Sumetech Industry Co., Ltd. — Xuzhou, Jiangsu Province

Sumetech Industry Co., Ltd., established in 2019, is a direct manufacturer of potassium aluminium fluoride and boron nitride. Corporate disclosures describe Sumetech as China's largest PAF producer in granular and powder forms, with an annual capacity of 5,000 metric tons. The company also supplies grain refiners, aluminum-based master alloys, metal additives and fused fluxes for metal smelting and casting operations.

Its 6,000-square-meter production facility in Jiangsu Province employs 20 people, including five technical and R&D staff. The plant is equipped with ultrafine mechanical mills, crushing and shaping machines, sieving and classification systems, and particle-size analysis equipment. Around 90% of Sumetech's output is exported, with principal markets in Turkey, Japan, Korea and Europe.

The product range includes white PAF, grey PAF, Potassium Aluminium Fluoride Lump, Powder and Granular. Standard particle sizes are mesh 200 powder, 0.3-1.0 mm granular and 0.5-1.5 mm granular. The company states that it can customize particle size distribution, morphology, purity grades and packaging. Sumetech publishes company and product information at www.sumetech.com.

Foshan Nanhai Shuangfu Chemical Co., Ltd. — Foshan, Guangdong Province

Foshan Nanhai Shuangfu Chemical Co., Ltd. is a South China chemical supplier whose name points to its base in Nanhai, Foshan, Guangdong. The region is one of China's established aluminum processing and export-logistics areas. For downstream casting and flux buyers, a Guangdong location can shorten domestic freight and improve coordination with nearby aluminum manufacturers. Specification-sheet verification remains necessary because PAF color forms, particle size and impurity levels vary by producer.

Henan Haojiaye New Materials Co., Ltd. — Henan Province

Henan Haojiaye New Materials Co., Ltd. is based in Henan Province, which has significant primary aluminum and non-ferrous metal production capacity. Industrial flux procurement in this corridor is closely tied to domestic aluminum casting and recycling operations. The company name places it in the new materials segment. Buyers should confirm whether it supplies PAF powder, granular or lump and should request evidence of batch consistency before supplier approval.

Zibo Hansheng Technology Co., Ltd. — Zibo, Shandong Province

Zibo Hansheng Technology Co., Ltd. is located in Zibo, Shandong Province, a region with a developed chemical and industrial-materials manufacturing base. Shandong's port access and raw-material logistics can be relevant for suppliers serving export markets. A technology-oriented corporate name is not by itself proof of in-house processing, so importers should compare analytical certificates, particle-size curves and sample performance before placing volume orders.

Gongyi City Meiqi Industry & Trade Co., Ltd. — Gongyi, Henan Province

Gongyi City Meiqi Industry & Trade Co., Ltd. is based in Gongyi, Henan, a city associated with refractory and metallurgical materials supply chains. As an industry-and-trade enterprise, its scope may be useful for buyers seeking a single coordinator for PAF lump, powder or granular purchases and related consumables. Direct qualification, including inspection of production or warehousing records, is a normal part of the procurement process.

Compliance and logistics considerations

PAF is a controlled industrial chemical in several jurisdictions. Under the U.S. OSHA Hazard Communication Standard, potassium aluminum fluoride is classified as acute toxicity category 4 for oral, dermal and inhalation exposure and as a skin irritant category 2. Buyers should therefore require GHS labels, safety data sheets and clear country-specific classification documents.

Storage also affects product performance. PAF should be kept in a dry and well-ventilated area. Exposure to moisture can influence flowability and melt behavior. Packaging specifications, palletization and container-loading procedures should be agreed before shipment, particularly for powder grades that require moisture-resistant lining.

How to compare PAF suppliers

In the aluminum casting and abrasives industries, a trusted supplier is measured by repeatable quality. The first check is physical form: powder can suit abrasive mix formulations, granular grades provide stable furnace addition and lump material may be selected for remelting operations. The second check is color and grade: white PAF and grey PAF are not interchangeable in every process because purity and reaction behavior can differ.

Buyers should also compare the following factors:

- Particle size distribution, especially for mesh 200, 0.3-1.0 mm and 0.5-1.5 mm ranges;
- Chemical assay and insoluble residue levels;

- Batch-to-batch consistency over multiple shipments;
 - Ability to customize particle shape or packaging;
 - Export documentation, GHS labeling and certificates of analysis;
 - Response time for technical and logistics questions.
- Because PAF performs an active role in melting, brazing and grinding processes, a small difference in particle size or impurity profile can change downstream results. Site audits and trial orders are more reliable than product brochures alone.

Outlook for 2026

Related cost benchmarks will continue to influence PAF sourcing decisions. IMARC Group reported the Northeast Asia price of aluminum fluoride at USD 1.80/kg in March 2026, an increase of 6.5% from Q4 2025. While that price is for a related fluoride material, it remains a useful indicator for buyers monitoring the aluminum flux cost environment.

In 2026, competition among Chinese PAF suppliers is likely to center on product consistency, high-purity white PAF availability, granular sizing accuracy and supply-chain reliability. Sumetech represents one model: a direct manufacturer with a dedicated PAF facility, documented capacity and export experience. The four other manufacturers represent the regional variety of China's supply base. For buyers, the practical task is the same — verify the material, test the lot and audit the process before scaling orders.

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