

AMMONIUM ALUM

TECHNICAL PRODUCT BROCHURE

High Purity Aluminum Salt
for Water Treatment and Industrial Applications



Purify
Water



Reliable
Quality



Sustainable
Solutions



KolinSC Product Data Sheet

Ammonium Alum

Food Grade & Industrial Grade | Block Crystal & Crystalline Powder Series

KolinSC supplies high quality ammonium alum (aluminum ammonium sulfate dodecahydrate) with stable performance, flexible specifications and professional global chemical supply chain service.

1. Product Identification

Item	Specification
Product Name	Ammonium Alum
Chemical Name	Aluminum Ammonium Sulfate Dodecahydrate
Molecular Formula	$\text{NH}_4\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$
Molecular Weight	453.33
CAS No.	7784-26-1
Appearance	Colorless transparent crystals / white crystalline powder or granules
Crystal Forms	Block crystals and crystalline powder
Powder Specification	30-50 mesh
Block Crystal Specification	Approx. 5-10 cm diameter

2. Product Characteristics

- High purity and low impurity content.
- Good solubility and stable chemical performance.
- Available in block, granular and powder forms.
- Suitable for different industrial processing requirements.
- Provide COA, MSDS, OEM packaging and customized solutions.

3. Physical and Chemical Properties

Property	Description
Appearance	Colorless transparent crystals or white powder
Chemical Type	Sulfuric acid salt double compound
Crystal Water	Contains twelve crystal water molecules
Water Solubility	Soluble in water
Solution Property	Acidic solution
Thermal Stability	Loses crystal water when heated

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Technical Specifications

4. Food Grade Standard

Food additive aluminum ammonium sulfate specification

Item	Specification
Aluminum ammonium sulfate $[\text{NH}_4\text{Al}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}]$ dry basis	$\geq 99.5\%$
Lead (Pb)	$\leq 5.0 \text{ mg/kg}$
Arsenic (As)	$\leq 2.0 \text{ mg/kg}$
Selenium (Se)	$\leq 30.0 \text{ mg/kg}$
Fluorine (F)	$\leq 30.0 \text{ mg/kg}$

5. Industrial Grade Standard

Item	Superior Grade	First Grade	Qualified Grade
Aluminum ammonium sulfate dry basis %	99.2	98.6	97.6
Iron (Fe) % $\leq$	0.01	0.01	0.05
Heavy metals as Pb % $\leq$	0.002	0.002	0.005
Arsenic (As) % $\leq$	0.0002	0.0005	0.001
Water-insoluble matter % $\leq$	0.2	0.4	0.6
Moisture % $\leq$	1.0	1.5	2.0

Applications

Wastewater Treatment: Used for flocculation and sedimentation of industrial wastewater and printing & dyeing wastewater, including turbidity removal, decolorization and heavy metal removal.

Leather Industry: Used as aluminum tanning agent and post-treatment agent.

Dye Industry: Used as dye resist agent and color development auxiliary.

Glass Industry: Used as yellow glass colorant.

Electroplating Industry: Used as electroplating buffer.

Other Applications: Used in starch additives and other industrial fields.

Product Form Advantages

Form	Advantages
Block Crystal (5-10 cm)	Premium appearance, lower dust, convenient storage and transportation.
Crystalline Powder (30-50 mesh)	Fast dissolution, easy mixing and accurate dosing.

Packaging & Supply Service

Packaging Specification

Package	Details
Standard Packaging	25kg PP bag / kraft paper bag with moisture-proof liner
Export Packaging	50kg customized packaging
Bulk Packaging	1000kg jumbo bag
Customization	OEM and neutral export packaging supported

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Storage Conditions

- Store in cool, dry and ventilated areas.
- Protect from moisture.
- Avoid contact with strong acids and alkalis.
- Transport as general chemical product.

KolinSC Service Commitment

- Provide samples, COA, MSDS and customs documents.
- Support trial orders and long-term supply.
- Support factory audit and third-party inspection.
- Professional service from quotation to after-sales.

Why Choose KolinSC

KolinSC focuses on reliable chemical supply chain solutions. We combine product quality control, export experience and customer-oriented service to build long-term partnerships with global customers.

KolinSC

Industrial Water Treatment Chemicals Supplier

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