WOOD WELL LIMITED

TRUSTED FERTILIZER PARTNER

QUALITY PRODUCTS
PROFESSIONAL SERVICE
SUSTAINABLE GROWTH

Fertilizer Product Catalogue

NOURISHING THE PLANET
FOR A BRIGHTER TOMORROW

- **UREA**
  46% N
- **DAP**
  18-46-0
- **MAP**
  11-52-0
- **AMMONIUM SULPHATE**
  21% N



Growing Together for a Better Tomorrow

Reliable Supply | Consistent Quality | Professional Support

2026 EDITION
WOOD WELL LIMITED

FERTILIZERS FOR A SUSTAINABLE FUTURE

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ABOUT WOOD WELL LIMITED

Your Trusted Fertilizer Partner

Wood Well Limited · Hong Kong SAR · Serving Vietnam · Thailand · Bangladesh · Sri Lanka · South Asia

Wood Well Limited is a Hong Kong SAR-incorporated fertilizer trading company established to serve agricultural importers and distributors across Southeast and South Asia. Our Hong Kong base provides a neutral, internationally recognised trade platform with established banking, logistics, and legal infrastructure for cross-border transactions.

We are not a trading intermediary. Wood Well is the international trading arm of a vertically integrated fertilizer enterprise — giving Asian importers and distributors direct access to factory pricing, verified quality, and a supply chain built on decades of global export experience.



Partner Factory — Aerial View

Our Parent Group's Production Capabilities

Our partner factories are Chinese state-owned enterprises operating ISO 9001-certified production facilities across Shandong, Hebei, and Yunnan provinces. These facilities supply millions of metric tonnes annually to Brazil, Southeast Asia, and other global markets — the same proven supply chain now serving Asian importers through Wood Well.

Pre-Shipment Quality Assurance

Every shipment undergoes mandatory third-party pre-shipment inspection by SGS, Bureau Veritas (BV) or CCIC. Full documentation is provided as standard: Certificate of Analysis (COA), phytosanitary certificate, bill of lading, and certificate of origin.

Flexible Order Sizes

MOQ from 1 x 20ft FCL (~22 MT) for trial orders, up to full bulk vessel charters (5,000-25,000 MT) for national importers and co-operatives. Payment terms: 30% T/T advance + 70% within 3 banking days after China Customs release certificate issued.

HK Entity	SGS / BV / CCIC	ISO 9001	Full Documentation	Competitive FOB	Fast Execution
Neutral, internationally recognised trade structure	Third-party inspection on every shipment	Certified partner factories	COA · B/L · Phytosanitary · Origin Certificate	Factory-direct pricing Tianjin / Qingdao	15–21 day lead time after payment confirmed

CONTACT & INQUIRY

Wood Well Limited	Room 1901, 19/F, Lee Garden One, 33 Hysan Avenue, Causeway Bay, Hong Kong SAR
Tel / WhatsApp	+1-647-901-3887
Email	HOVER@WOODWELL.NET
Website	www.woodwellagro.com

PRODUCT CATALOGUE 2026

Product Overview Matrix

Product Family	Key Products
Urea	Agricultural Granular Urea 46-0-0; Agricultural Prilled Urea 46-0-0; Industrial Grade Urea; Automotive-Grade Urea Feedstock (High-Purity Solid)
DAP Diammonium Phosphate	Diammonium Phosphate (DAP) 18-46-0, Granular; Technical / Industrial Grade Diammonium Phosphate
MAP Monoammonium Phosphate	Monoammonium Phosphate (MAP) 11-52-0, Granular; Powdered Monoammonium Phosphate (MAP) 10-49-0 / 10-50-0
Ammonium Sulphate	Caprolactam-Grade Ammonium Sulphate, Crystalline; Coke-oven By-product Ammonium Sulphate, Crystalline

Product Selection and Specification Reading Instructions

Before Requesting a Quotation, Confirm Six Key Items

The same chemical name may correspond to different grades, physical forms, particle sizes, impurity limits and end-use applications. To avoid quotation discrepancies, buyers shall confirm at minimum: product grade, guaranteed specifications, physical form, particle size/fineness, packaging & quantity, and destination port together with end-use.

Fertilizer grades are conventionally expressed in the sequence N-P_2O_5-K_2O. For example, DAP 18-46-0 means the product nominally contains 18% nitrogen and 46% phosphate (as P_2O_5), with zero nominal potash (as K_2O).

Physical-Form Reference Table

Form	Typical Products in This Manual	Selection Focus Points
Granules	Agricultural Granular Urea	Particle-size distribution, granule strength, suitability for mechanical spreading and blending compatibility
Prills	Agricultural Prilled Urea	Dust generation, caking tendency, dissolution rate and processing suitability
Standard granules	Diammonium Phosphate (DAP) 18-46-0,Granular; Monoammonium Phosphate (MAP) 11-52-0, Granular	Particle size, granule strength, uniformity and anti-caking properties
Crystalline	Ammonium Sulphate; technical-grade phosphates	Colour, purity, impurity levels, particle size and moisture content
Powder / crystalline powder	Powdered Monoammonium Phosphate (MAP) 10-49-0 / 10-50-0; technical-grade products	Fineness, moisture content, caking tendency and water-insoluble matter

Specification Statement

The terms “usually”, “typical”, “approximately”, “common range” and HS-codes marked “to be confirmed” in this manual are provided for product identification and inquiry reference only and shall not constitute binding sales guarantees. Final technical requirements shall be defined by the mutually-agreed specification sheet, the supplier COA, destination-country regulations, customs classification and the formal contract.

UREA

From Agricultural Fertilization to Industrial and Automotive-Environmental Material Applications

The urea product line covers Agricultural Granular Urea 46-0-0 and Agricultural Prilled Urea 46-0-0, Industrial-Grade Urea and Automotive-Grade Urea Feedstock — High-Purity Solid. Although these products share the same basic chemical composition, they differ significantly in purity, impurity limits, physical form, packaging cleanliness and end-use, and shall not be used interchangeably.

Sub-product Line	Product	Primary Uses
Agricultural Grade	Agricultural Granular Urea 46-0-0	Direct fertilization, mechanized broadcasting, blending into BB fertilizers
Agricultural Grade	Agricultural Prilled Urea 46-0-0	Direct fertilization, compound fertilizer production, partial industrial feedstock
Industrial-Grade	Industrial-Grade Urea	Resins, melamine, adhesives, chemical synthesis and industrial NO_x reduction ($DeNO_x$)
Automotive / Environmental Grade	Automotive-Grade High-Purity Solid Feedstock	Raw material for manufacturing reductant for automotive SCR systems

01 Agricultural Granular Urea 46-0-0

Chemical formula: CH_4N_2O | CAS No.: 57-13-6 | HS-code reference: 310210

Agricultural Granular Urea 46-0-0 is a high-concentration nitrogen fertilizer; common trade grades have total nitrogen of no less than 46.0%. Larger granules facilitate mechanical spreading and enable blending with similarly sized phosphate-and potassium-based fertilizers in bulk-blend (BB) formulations. Product quality shall be evaluated against total nitrogen, biuret, moisture content, particle-size distribution, granule strength, fines & dust generation and caking tendency.

Main Applications

Application	Product Value
Direct-field application for field crops	Provides a high-concentration nitrogen source; application rates shall be determined based on crop, soil and local agronomic recommendations
Mechanized spreading	Larger granules help achieve more stable spread width and spreading uniformity
BB-fertilizer blending	When paired with fertilizers matched for particle- size and density, it reduces the risk of segregation
Bulk-agricultural procurement	Delivery options—bags, big bags (ton-bags) or bulk—shall be evaluated per project



Typical Commercial Specifications

Parameter	Typical / Usual Requirement	Remarks
Total Nitrogen	≥46.0%	Common trade specification; subject to contractual test benchmark
Biuret	≤1.0%	One of the key indicators affecting product-use suitability
Moisture	≤0.5%	Related to storage stability and caking-tendency risk
Typical Particle-Size	2.80–4.75 mm	Particle-size shall be confirmed via factory sieve report and contractual agreement
Appearance	White granules	Conforming appearance shall not substitute chemical-analysis testing
Reference Standard Control Points	GB/T 2440 and contract COA	Also monitor particle-size, granule strength, fines-and-dust generation and caking tendency





Packaging Options

Packaging Method	Recommended Use	Remarks
50 kg PP-woven bag + PE liner	Standard export and distribution	Standard option; bag-face printing, marks and language shall be confirmed under contract
25 kg bags	Retail or small-pack channels	Confirm factory packaging-line and minimum-order quantity
500 / 1,000 kg FIBC big-bags	Industrial users, fertilizer plants and bulk customers	Confirm lifting-loop configuration, liner, moisture-protection and safety-factor rating
Bulk	Large-scale import projects	Confirm port discharge, storage, vessel-type and moisture-protection plan

Procurement Confirmation Checklist

For enquiries, please provide particle-size range and acceptance ratio, granule-strength requirements, biuret and moisture maximum limits, whether anti-caking treatment is required, net-packaging weight, bag-face design, pallet-handling requirements, order quantity, destination port and target-shipment window.



Quality Note: This page lists common commercial specifications and shall not constitute a binding sales guarantee. Final parameters, test-method protocols are subject to the mutually-agreed specification-sheet, COA and contract.

02 Agricultural Prilled Urea 46-0-0

Chemical formula: CH_4N_2O | CAS No.: 57-13-6 | HS-code reference: 310210

In international trade, small-granule agricultural urea is usually referred to as Prilled Urea. The product is white, in small-granular or small-spheroidal form, with a typical particle-size of 1.00-2.50 mm and a common total-nitrogen specification of no less than 46.0%. Its finer particle-size allows use for direct-field fertilization, compound-fertilizer production, and some industrial-formulation applications; however, fines-and-dust generation, hygroscopicity and caking-tendency require particular attention during storage-and-handling.

Main Applications

Application	Product Value
Direct-application to field-crops	High-concentration nitrogen-source; compatible with routine manual-or-mechanical application-methods
Compound-fertilizer production	Can be used as a nitrogen-bearing raw-material for compound-fertilizer processing
Fertilizer-dissolution-and blending	Smaller-particles facilitate contact-and-dissolution; suitability shall still be verified against process requirements
Certain industrial-formulations	Impurity-limits shall be verified in advance; agricultural-grade product shall not be presumed suitable for industrial-applications



Product Identification

Form: Solid, small granules / small-spheroidal. Typical particle-size: 1.00–2.50 mm.
Typical-appearance: White small granules.
Standard-packaging: 50 kg PP-woven bag + PE liner.

Typical Commercial Specifications

Item	Typical / Common Requirement	Notes
Total-Nitrogen	≥46.0%	Common-trade-specification; contractual-test-basis shall prevail
Biuret	≤1.0%	Shall be verified according to crop-type or downstream-application
Moisture	≤0.5%	Related to caking-tendency and storage-stability
Typical-Particle-Size	1.00–2.50 mm	Subject to sieve-size distribution and contractual-agreement
Appearance	White prills	Also inspect fines-and-dust, caking-tendency and foreign-matter
Reference-Standard / Control- Points	GB/T 2440 and contractual COA	Focus on controlling caking-tendency, fines-and-dust, biuret and particle-size

Packaging Options

Packaging Method	Suitable For	Procurement Confirmation Points
50kg PP-woven bag + PE-liner	Regular agricultural export	Bag-tare-weight, liner, moisture-protection, stitching-seams and shipping-marks
25 kg bag	Retail-channel or small-packaging	Minimum-print-run-quantity, bag-type and pallets
500kg / 1000kg FIBC bulk-bags	Compound-fertilizer plants and bulk-consumers	Fines-leak-prevention, liner and lifting-safety
Bulk	Large-scale-projects	Maintain cleanliness, moisture-protection during loading-unloading, dust-control and destination-port-facilities



03 Industrial Grade Urea

Chemical formula: CH_4N_2O | CAS No.: 57-13-6 | HS-code reference: 310210 (to be confirmed)

Industrial-Grade-Urea is intended for resin-production, melamine, adhesives, chemical-synthesis and industrial NOx-reduction-applications. Different end-use-processes impose widely-varying limits upon urea purity, biuret, aldehydes, metal-ions and water-insoluble-matter; therefore, “industrial-grade” shall not be defined by one single universal-specification. Prior-to-quotation, the buyer’s intended-use, process-conditions and full technical-requirements shall be provided.

Product Information

Item	Reference
Typical purity / nutrient	Urea purity typically ≥99.0%-99.5%;total nitrogen ≥46.0%
Key impurities	Biuret, aldehydes, metal-ions and water-insoluble matter shall be controlled perend-userequirements
Physical form	Solid, granules / prills / crystalline-form
Particle size	To-be-confirmed in accordance with customer’s process-requirements
Appearance	White granules or crystals
Standard packaging	25 / 50 kg PP-woven-sacks + PE-liner
Optional packaging	500 / 1,000 kg FIBC ton-bags; pallet stretch-wrap
Governing standards	Internal-company-standards, customer-specified-standards and contract-agreed COA





04 Automotive Grade Urea Raw Material-High Purity Solid

Chemical formula: CH_4N_2O | CAS No.: 57-13-6 | HS-code reference: 310210 (to be confirmed)

This product is a high-purity-solid raw-material for automotive-grade reductant used in diesel-engine selective catalytic reduction (SCR systems. Compared with agricultural-grade-urea, automotive-grade raw-material shall require stricter control over biuret, aldehydes, phosphates, metal-ions and water-insoluble-matter; contamination from particulates, oils, metals and other chemicals shall be avoided throughout production, packaging, storage and transport.

Product Information

Parameter	Reference
Urea purity	Typically ≥99.5%
Quality characteristics	Low biuret content; strict limits for aldehydes, phosphates, metal ions and other impurities
Physical form	Solid; fine particles / small granules / crystals
Particle size	Non-core control parameter; to be confirmed in accordance with buyer’s dissolution and production-process requirements
Appearance	White, high-purity granules or crystals
Standard packaging	25 kg moisture-resistant woven-bag + PE-liner
Optional packaging	500 / 1,000 kg FIBC bulk bags; pallet stretch-wrap
Quality basis	Customer-specified automotive-reductant raw-material standards, supplier-issued COA and contractual technical annex



Key Controls

Dedicated clean packaging | Moisture-tight sealing | Avoid cross-contamination | Batch COA | Process water and equipment cleanliness | Finished product quality re-inspection.

DAP

DIAMMONIUM PHOSPHATE | Agricultural Granular and Industrial / Technical Applications

The DAP product line includes granular Diammonium Phosphate (DAP) 18-46-0 and technical/industrial-grade Diammonium Phosphate. Agricultural-grade products focus on nitrogen-phosphorus nutrients, available phosphorus (Avail. P), water-soluble phosphorus (WS-P), particle-size distribution and physical-handling properties; technical/industrial grade prioritizes assay, pH value, water-insoluble matter, heavy-metal content and compatibility with end-use processes.

Product	Tier	Form	Primary Uses
Diammonium Phosphate (DAP) 18-46-0, Granular	Featured	Dark gray / brown granules	Basal fertilizer, seed-placement fertilizer, for cereals and cash crops; for blending into NPK / BB fertilizers
Technical / Industrial Grade Diammonium Phosphate	Featured	White or colorless crystals / crystalline powder	Flame retardants, fermentation nutrients, water-treatment agents, fine-chemical raw materials

01 Diammonium Phosphate (DAP) 18-46-0, Granular

Chemical formula: $(NH_4)_2HPO_4$ | CAS No.: 7783-28-0 | HS-code reference: 310530

Agricultural DAP 18-46- is a granular fertilizer supplying both nitrogen and phosphorus. It is suitable for basal application and seed-Placement application. Key control indicators include available P_2O_5, water-soluble P_2O_5, moisture content, particle-size distribution and granule crushing strength.

Core Positioning

Dimension	Product Features
Nutrient composition	N ≥18.0%; available P_2O_5 ≥46.0%
Form	Solid granules, suitable for direct application and fertilizer blending
Typical particle size	2.00–4.75 mm
Appearance	Dark-grey or brown granules; color varies with phosphate-rock source and manufacturing process
Typical uses	Basal fertilizer, seed-placement fertilizer, for blending into NPK / BB fertilizers
Standard packaging	50 kg PP woven-bag + PE-liner



Application Notes

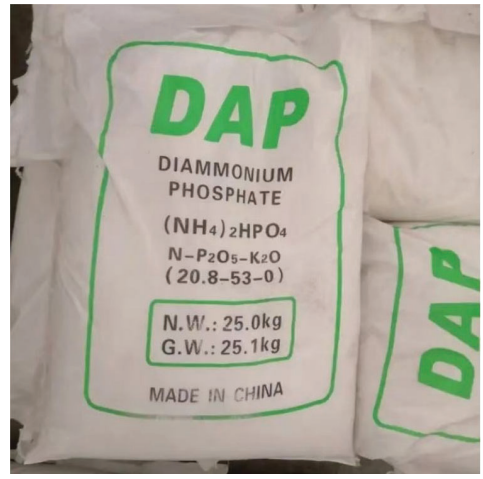
Specific application methods and rates for DAP shall be determined in accordance with soil conditions, crop types, target yield and local agronomic recommendations. When used as BB-fertilizer feedstock, evaluate particle-size distribution, bulk density, granule crushing strength and compatibility with other components to reduce segregation and dusting risks during transport and spreading.

Typical Commercial Specifications

Item	Typical / Common Requirement	Notes
Total Nitrogen (N)	≥18.0%	Subject to testing methods agreed in the contract
Available Phosphorus (as P_2O_5)	≥46.0%	Core guaranteed parameter
Water-soluble P_2O_5	To be confirmed in contract	Minimum value or proportion of available P_2O_5 should be specified
Moisture	To be confirmed in contract	Related to storage and transport stability and caking
Typical Particle Size	2.00–4.75 mm	Sieve passing ratio to be specified in the contract
Appearance	Dark gray / brown granules	Color should not be used as the sole quality criterion
Reference Standard / Control Points	GB/T 10205 and contractual COA	Also monitor granule strength, dusting and anti-caking

Packaging Options

Packaging Method	Applicable Scenarios	Key Confirmation Items
50 kg PP woven bag with PE liner	Standard export and channel distribution	Net weight, PE liner, stitching / heat-seal, shipping marks and moisture-proof protection
25 kg PP woven bag	Small-pack or special-requirement markets	Packaging specification, printing details, quantity and palletization scheme
500 / 1 000 kg FIBC bulk bags	Fertilizer plants and large-volume industrial customers	Lifting capability, safety factor, inner liner and discharge spout
Bulk	Large-volume import projects	Maintain cleanliness, unloading, storage, moisture control and anti-caking measures



Quality Note: **Product color may vary with feedstock source and production-process conditions; product acceptance shall be determined in accordance with contractual chemical and physical specifications and inspection documents.**

02 Technical / Industrial Grade Diammonium Phosphate

Chemical formula: $(NH_4)_2HPO_4$ | CAS No.: 7783-28-0 | HS-code reference: 310530 (to be confirmed)

Technical / Industrial Grade Diammonium Phosphate is produced with a higher assay and tighter impurity control for applications such as flame retardants, fermentation nutrient sources, water treatment and fine chemicals. Unlike agricultural-grade DAP, its appearance is typically white or colorless crystals / crystallinepowder. When procuring, specify final use and the customer's technical requirements to define limits for pH, water-insoluble matter, heavy metals and other impurities.



Key Applications

Application	Procurement Considerations
Flame retardants & material processing	Assay, pH, moisture, chloride / sulphate, and heat-treatment compatibility
Fermentation nutrients	Assay, water-insoluble matter, heavy metals and process-permitted impurities
Water treatment	Solubility, pH, metal ions and water-insoluble matter
Fine chemicals	Batch-to-batch stability, target impurity ions, packaging cleanliness and customer-specified test methods

Technical Specification Framework

Item	Reference Requirement	Notes
Assay	Typically ≥98.0%	Final specification shall be agreed between supplier and buyer
pH Value	To be confirmed per end-use application	Solution concentration and test method shall be specified
Water-insoluble matter	To be controlled per end-use application	Particularly critical for water treatment, fermentation and fine-chemical applications
Moisture	To be confirmed per contract	Impacts storage stability, flowability and process dosing
Heavy metals	To be controlled per end-use application	Specific elements, limit values and test methods shall be individually defined
Physical form / fineness	Crystalline, crystalline powder or fine crystals	To be confirmed according to dissolution, mixing or reaction process requirements
Appearance	White or colourless crystals	Appearance for identification purposes only

Packaging and Delivery

Packaging	Applicable Scenarios	Notes
25 kg composite bag / kraft paper bag with PE liner	Standard industrial customers	Focus on moisture-proof protection, bag cleanliness and heat-sealing
500 / 1,000 kg FIBC bulk bags	Continuous-production or bulk-use customers	Confirm inner liner, discharge spout, lifting loops and cross-contamination prevention
Palletised delivery	Orders with higher packaging-integrity requirements	Pallet material and fumigation / non-fumigation requirements to be confirmed in accordance with destination country

MAP

MONOAMMONIUM PHOSPHATE | Granular, Powdered & Technical Grades

The MAP product line is organized into three tiers: granular Monoammonium Phosphate (MAP) 11-52-0, for direct fertilization and blending into granular fertilizers; powdered Monoammonium Phosphate (MAP) 10-49-0 / 10-50-0, for compound-fertilizer granulation and industrial fertilizer formulations; and industrial / technical-grade Monoammonium Phosphate, customized for flame retardants, dry-powder firefighting, fermentation and fine-chemical applications with tailored purity and impurity control.

Product	Tier	Form	Main Applications
Granular Monoammonium Phosphate (MAP) 11-52-0	Featured	Light-grey / beige granules	Basal fertilizer, seed-row fertilizer, phosphorus source for alkaline soils, NPK / BB blends
Powdered Monoammonium Phosphate (MAP) 10-49-0 / 10-50-0	Featured	Off-white / beige powder	Compound-fertilizer granulation, NPK production, industrial-fertilizer formulations
IIndustrial / technical-grade Monoammonium Phosphate	Extended	White or colourless crystals/crystalline powder	Flame retardants, dry-powder firefighting, fermentation, fine-chemical applications

01 Monoammonium Phosphate (MAP) 11-52-0, Granular

Chemical formula: $NH_4H_2PO_4$ | CAS No.: 7722-76-1 | HS-code reference: 310540

Agricultural MAP 11-52-0 is a high-concentration N–P granular fertilizer, suitable as a basal fertilizer, starter / seed fertilizer and as a raw material for NPK / BB blends. The product is widely used as the phosphate source on alkaline soils and in nutrition programs for food and cash crops. When procuring, specify available P_2O_5, water-soluble P_2O_5, moisture, particle size, granule strength and anti-caking requirements.

Core Positioning

Dimension	Product Features
Nutrient-composition	N ≥11.0%; available P_2O_5 ≥52.0%
Physical-form	Solid, granular
Typical-particle-size	2.00-4.75mm
Appearance	Light-grey or beige granules
Typical-uses	Basal fertilizer, starter / seed-row fertilizer, phosphorus source for alkaline soils, blending for NPK / BB blends
Standard-packaging	50 kg PP woven bag with PE liner



Application Notes

When applying this product directly, determine application rates and placement based on crop requirements, soil tests and local agronomic recommendations. For blends or compound-fertiliser production, evaluate particle-size compatibility, granule strength, dusting / fines generation and raw-material compatibility.

Typical Commercial Specifications

Item	Typical / Common Requirement	Notes
Total Nitrogen (N)	≥11.0%	As determined by the test method specified in the contract
Available Phosphorus (as P_2O_5)	≥52.0%	Core guaranteed parameter
Water-soluble P_2O_5	To be confirmed in contract	Related to caking, storage and flowability
Moisture	To be confirmed in contract	Minimum absolute value or percentage of available P_2O_5 should be specified
Typical Particle Size	2.00–4.75 mm	Passing rate for sieving must be specified
Appearance	Light grey / beige granules	Color is not the sole quality criterion
Reference Standards / Control Points	GB/T 10205 and contract COA	Emphasis on controlling available P_2O_5, water-soluble P_2O_5, moisture and particle size

Packaging Options

Packaging	Suitable Applications	Procurement Confirmation Points
50 kg PP woven bag with PE liner	Standard agricultural export	Liner, moisture-proof protection, net weight, shipping marks and seam / closure
25 kg bags	Distribution and small-pack market	Bag material, printing, palletising and minimum order quantities
500 kg / 1000 kg FIBC bulk bags	Fertiliser plants and bulk-consumption customers	Safety factor, lifting loops / lifting straps, liner and discharge spout
Bulk	Large-scale projects	Clean ship-holds, port discharge, storage and moisture control



Procurement Confirmation Checklist

N and available P_2O_5 | Water-soluble P_2O_5 | Moisture | Particle-size and sieve-passing rate | Granule strength | Anti-caking treatment | Packaging and marks | Destination port | Shipment timing | Importing country registration / inspection requirements.

Product differentiation: This product is granular Monoammonium Phosphate (MAP) 11-52-0. It must not be mixed with, nor substituted by powdered Monoammonium Phosphate (MAP) 10-49-0 / 10-50-0 or industrial-/technical-grade MAP.

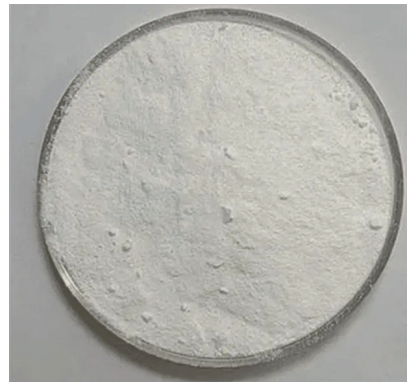
02 Powdered Monoammonium Phosphate (MAP) 10-49-0 / 10-50-0

Chemical formula: $NH_4H_2PO_4$ | CAS No.: 7722-76-1 | HS-code reference: 310540

Powdered Monoammonium Phosphate (MAP) 10-49-0 / 10-50-0 is primarily used for compound fertilizer granulation, NPK production and industrial fertilizer formulations. The product appears as a grey-white to off-white powder; particle fineness, moisture content, available phosphorus and caking behavior directly affect downstream weighing, blending and granulation processes. 10-49-0 and 10-50-0 should be confirmed as two separate optional grades and should not be combined into a single fixed guaranteed value in the contract.

Two Common Commercial Grades

Parameter	MAP 10-49-0	MAP10-50-0
Total Nitrogen (N)	Approx. 10%	Approx. 10%
Available P_2O_5	Approx. 49%	Approx. 50%
Form	Powder	Powder
Typical Appearance	Grey-white / off-white	Grey-white / off-white
Primary Uses	Compound-fertilizer granulation, NPK production	Compound-fertilizer granulation, NPK production
Final Guaranteed Values	As per factory COA and contract	As per factory COA and contract



Typical Specification Framework

Item	Reference	Procurement Note
Total Nitrogen (N)	Approx. 10%	Per the COA for the specific grade
Available P_2O_5	Approx. 49%–50%	Confirm 10-49-0 and 10-50-0 separately
Physical form	Solid, powder	Different in use and physical form from granular MAP
Particle size / fineness	Fine powder; sieve residue per contract	Must match downstream granulation or blending equipment
Appearance	Gray-white / beige powder	Color influenced by raw materials and process
Moisture	Per contract	Affects flowability, caking and granulation stability
Reference basis	Manufacturer specifications and contract COA	Key controls: moisture, fineness, available P_2O_5 and caking

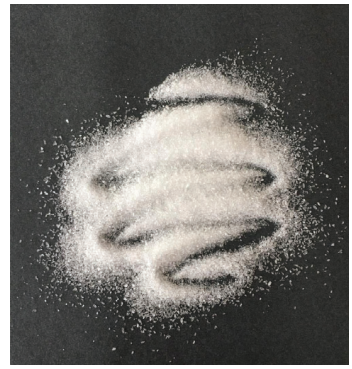
03 Technical / Industrial Grade Monoammonium Phosphate

Chemical formula: $NH_4H_2PO_4$ | CAS No.: 7722-76-1 | HS-code reference: 310540 (to be confirmed)

Technical / Industrial grade MAP is used in flame retardants, dry-powder fire extinguishers, fermentation and fine chemicals. The product is typically white or colorless crystals / crystalline powder, with assay commonly not less than 98. 0%. Different end uses have significantly different requirements for chlorides, sulphates, metal ions, water-insolubles and particle size; dedicated specifications should be established according to the final use.

Product Information

Item	Reference
Assay	Typically ≥98.0%
Form	Solid, crystals / crystalline powder
Particle size	Powder or fine crystals, as per customer requirements
Appearance	White or colorless crystals
Key controls	pH, water-insolubles, chlorides, sulphates, metal ions and other use-related impurities
Standard packaging	25 kg composite bag / kraft paper bag + PE liner
Optional packaging	500 / 1,000 kg FIBC bulk bags; pallets
Reference standard	Company standards, customer standards and contract COA





Inquiry Information

End-use | Assay | pH and test conditions | Water-insolubles | Chlorides / Sulphates | Metal-ion parameters | Particle size / fineness | Moisture | Packaging cleanliness | Sample-verification requirements.

Applicability note: Technical / Industrial grade MAP specifications for agricultural-granular or powdered fertilizer MAP cannot be applied directly; if used for firefighting, fermentation or other specialized processes, suitability must be confirmed according to customer formulation and local regulations.

AMMONIUM SULPHATE | Two Primary Crystalline Grades

The ammonium sulphate product line focuses on caprolactam-grade crystalline ammonium sulphate and coke-oven by-product-grade crystalline ammonium sulphate. Both grades supply nitrogen and sulphur simultaneously and are suitable for direct soil application, sulphur nutrient supplementation and NPK/BB fertilizer production. During procurement, attention shall be paid to production process, colour, particle size, moisture content, free acidity, iron content, impurities and caking tendency.

Product	Tier	Appearance	Primary Use
Caprolactam-grade crystalline ammonium sulphate	Featured	White / off-white crystals	Direct-soil application, sulphur-nutrition supplement, raw material for NPK / BB fertilizers
Coke-oven by-product-grade crystalline ammonium sulphate	Featured	White, off-white or pale-yellow crystals	Cost-effective N-S fertilizer, compound fertilizer production and bulk blending

01 Caprolactam-grade Ammonium Sulphate

Chemical Formula: $(NH_4)_2SO_4$ | CAS No.: 7783-20-2 | HS-code reference: 310221

Caprolactam-grade crystalline ammonium sulphate typically appears as white or off-white crystals. It supplies both nitrogen and sulphur for direct field application, crop sulphur nutrition supplementation, and serves as feedstock for NPK / BB fertilizers. This grade is noted for its colour and purity. However, “Caprolactam-grade” refers to production origin and commercial classification. Actual nutrient values, impurity levels and physical parameters shall be subject to batch-specific COA and contract.

Product Identification

Parameter	Reference
Typical-Nutrients	N typically ≥21.0%; S typically ≥24.0%
Moisture	Typically ≤1.0%
Form	Solid, crystalline / granular
Typical-particle-size	Typically 0.5–2.0 mm; confirmed by sieve-analysis
Appearance	White / off-white crystals
Main-Applications	Direct-fertilization, sulphur-nutrient - supplementation, feedstock for NPK / BB fertilizers
Standard-packaging	50 kg PP-woven bag + PE liner



Application Notes
For agricultural-use, application-rates shall be determined in accordance with crop-nitrogen-and-sulphur requirements, soil-tests and local-agronomic-recommendations. When utilised as feedstock for BB / compound-fertilizers, verify particle-size-distribution, moisture-content, flowability, colour and compatibility with other-granular-components.

Typical Commercial Specifications

Parameter	Typical / Common Requirement	Notes
Total-Nitrogen (N)	Typically ≥21.0%	Subject to contract COA
Sulphur (S)	Typically ≥24.0%	Test method as per contract
Moisture	Typically ≤1.0%	Related to flowability and caking
Typical-Particle-Size	Typically 0.5–2.0 mm	Compliance ratio confirmed by sieve analysis report
Appearance	White / off-white crystals	Also check impurities, caking and foreign matter
Reference Standard / Control Points	GB/T 535 and contract COA	Focus on moisture, free acidity, iron and particle size

Packaging Options

Packaging-Type	Use-Case	Key-Checks
50kg PP-woven bag with PE-inner-liner	Regular export and agricultural distribution	Moisture protection, net weight, seam, bag printing and shipping marks
25-kg bag	Small-pack channels	Packaging line, print runs and palletization scheme
500 / 1 000kg FIBC bulk-bags	Fertilizer manufacturing and bulk-volume customers	Inner liner, lifting straps, safety factor, crystal-leakage prevention
Bulk	Large-scale-bulk projects	Clean holds, moisture control, port discharge and storage conditions





Procurement Confirmation Checklist

N and sulphur guaranteed values | Moisture | Free acidity | Iron | Colour | Particle-size and sieve distribution | Caking tendency | Packaging and ship ping marks | Order quantity | Destination port | Shipment period

Source and quality note: "Caprolactam grade" shall not substitute for a full specification. Final acceptance shall be based on defined chemical and physicalparameters, test methods and batch specific COA.

02 Coke oven/ By product Ammonium Sulphate

Chemical formula: $(NH_4)_2SO_4$ | CAS No.: 7783-20-2 | HS-code reference: 310221

Coke-oven / by-product crystalline ammonium sulphate is an economical nitrogen-sulphur product for agricultural and fertilizer-processing markets. It is widely used for direct soil application, compound fertilizer manufacture and bulk blending.The product may occur as white, off-white or pale-yellow crystals with a generally wide particle-size distribution.As raw-material origin and manufacturing process may influence colour, iron content, free acidity, impurity levels and caking tendency, quotations and contracts must specify product source category and quality parameters.

Parameter Product Identification	Reference
Typical-nutrients	N typically ≥20.5%-21.0%; Sulphur typically ≥23%-24%
Moisture	Typically ≤1.0%
Form	Solid, crystalline
Typical particle-size	Typically 0.2–2.0 mm; broad particle-size distribution
Appearance	White, off-white or pale-yellow crystals
Main-uses	Cost-effective nitrogen-sulphur fertilizer, compound-fertilizer production, bulk blending
Standard-packaging	50 kg PP-woven bags with PE liner



Application Notes

When used as an agricultural fertilizer, application schedules shall be determined based on crop type, soil conditions and local regional regulations. When used as feedstock for compound fertilizer or BB blends, priority shall be given to evaluating particle-size, colour, moisture content, free acidity and impurity levels for their impacts on manufacturing processes and finished-product appearance.

Typical Commercial Specifications

Item	Typical / Common Requirement	Remarks
Total-Nitrogen (N)	Typically ≥20.5%–21.0%	Final guaranteed value shall be confirmed per batch and contract
Sulphur (S)	Typically ≥23%–24%	Test basis shall be specified in the contract
Moisture	Typically ≤1.0%	Affects flowability and caking tendency
Typical Particle-size	Typically 0.2–2.0 mm	Particle-size distribution may be broad
Appearance	White, off-white or pale-yellow crystals	Colour range shall be subject to confirmed sample and contract description
Reference Standard / Control Points	GB/T 535 and contract COA	Key control parameters: free acidity, iron, colour, impurities and caking

Packaging and Delivery

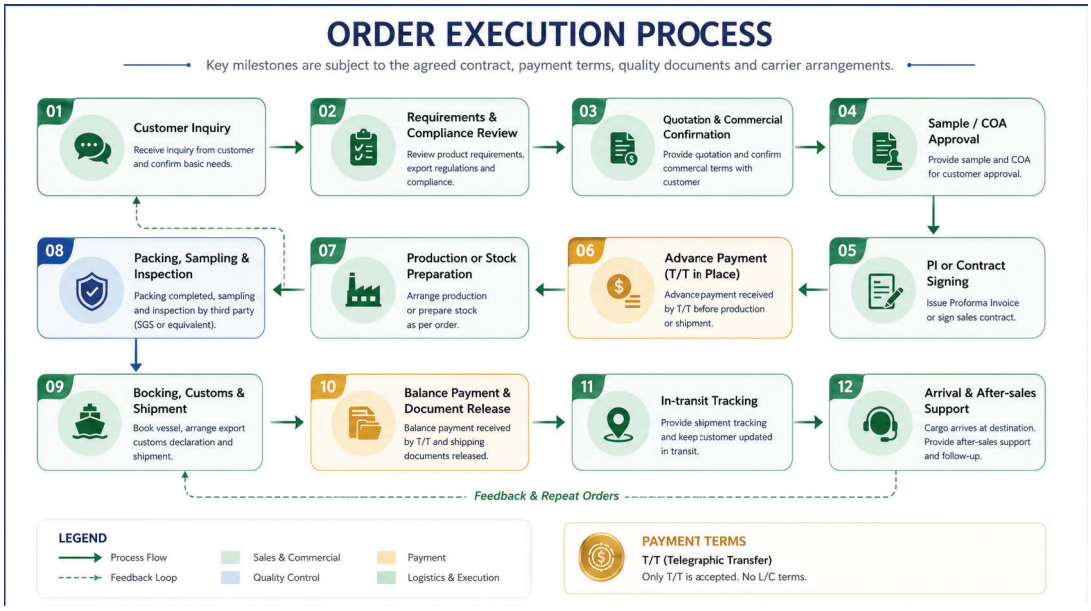
Standard packaging: 50kg PP woven bags with PE liner. Optional packaging / transport: 500/1000 kg FIBC bulk-bags; bulk shipment.For bulk or FIBC consignments, additional confirmation shall be obtained for moisture content, dust-to-fines ratio, flowability, storage duration, ship-hold cleanliness and discharge conditions at the destination port.For bagged goods, specify acceptable colour range, shipping marks and the moisture-resistance performance of bag materials.

Purchase Confirmation Checklist

Source process | N and Sulphur specifications | Moisture | Free acidity | Iron | Colour range | Particle-size and sieve distribution | Impurities / foreign matter | Caking | Packaging | Quantity | Destination port

Segregation note: Coke-oven by-product grade ammonium sulphate and caprolactam-grade ammonium sulphate shall be quoted separately, with separate sample validat ion and separate contract specifications, to avoid generic deals concluded merely under the general description "Crystalline Ammonium Sulphate".

Foreign Trade Order Execution Process



Node Descriptions

Stage	Key Actions	Output Documents / Confirmations
1. Customer Inquiry	Receive the customer's inquiry; collect product, specification, packaging, quantity, destination port and trade-term requirements.	Inquiry Information Sheet; preliminary requirement record
2. Requirements & Compliance Review	Review product requirements, export regulations, destination-country requirements, HS classification and supply feasibility.	Review Comments; pending-confirmation checklist; compliance confirmation
3. Quotation & Commercial Confirmation	Issue a formal quotation and confirm price, validity, quantity, packaging, delivery schedule, payment and inspection arrangements.	Formal Quotation; confirmed commercial terms
4. Sample / COA Approval	Provide the agreed sample and reference or typical COA; confirm specifications, test basis and any accepted deviations.	Sample Approval; COA / Specification Confirmation
5. PI or Contract Signing	Finalize and sign the PI or sales contract, locking in product, guaranteed values, testing, packaging, shipment and claims terms.	Signed PI / Sales Contract
6. Advance Payment (T/T in Place)	Receive the contractual advance payment by T/T and verify that funds are in place before production or stock preparation.	Advance-payment receipt; fund-confirmation record
7. Production or Stock Preparation	Arrange production or prepare available stock; coordinate batch, packing materials and the contractual delivery plan.	Production / Stock Preparation Plan
8. Packing, Sampling & Inspection	Complete packing; perform factory sampling and inspection; arrange SGS or equivalent inspection if requested.	COA; Inspection Report; packing confirmation
9. Booking, Customs & Shipment	Book the vessel or transport service, complete export customs declaration, arrange loading and verify shipment information.	Booking Confirmation; Customs Documents; Shipment Records
10. Balance Payment & Document Release	Receive the contractual balance payment by T/T, verify receipt and release the agreed shipping and clearance documents.	Balance-payment record; full set of shipping documents
11. In-transit Tracking	Provide shipment tracking and keep the customer updated on sailing schedule, transshipment status and ETA.	Shipping Notice; status and ETA updates
12. Arrival & After-sales Support	Coordinate cargo-arrival follow-up, assist with document handling and quality feedback, and support subsequent reorders.	Arrival Feedback; After-sales Records; reorder follow-up

Major Export Markets and Port List

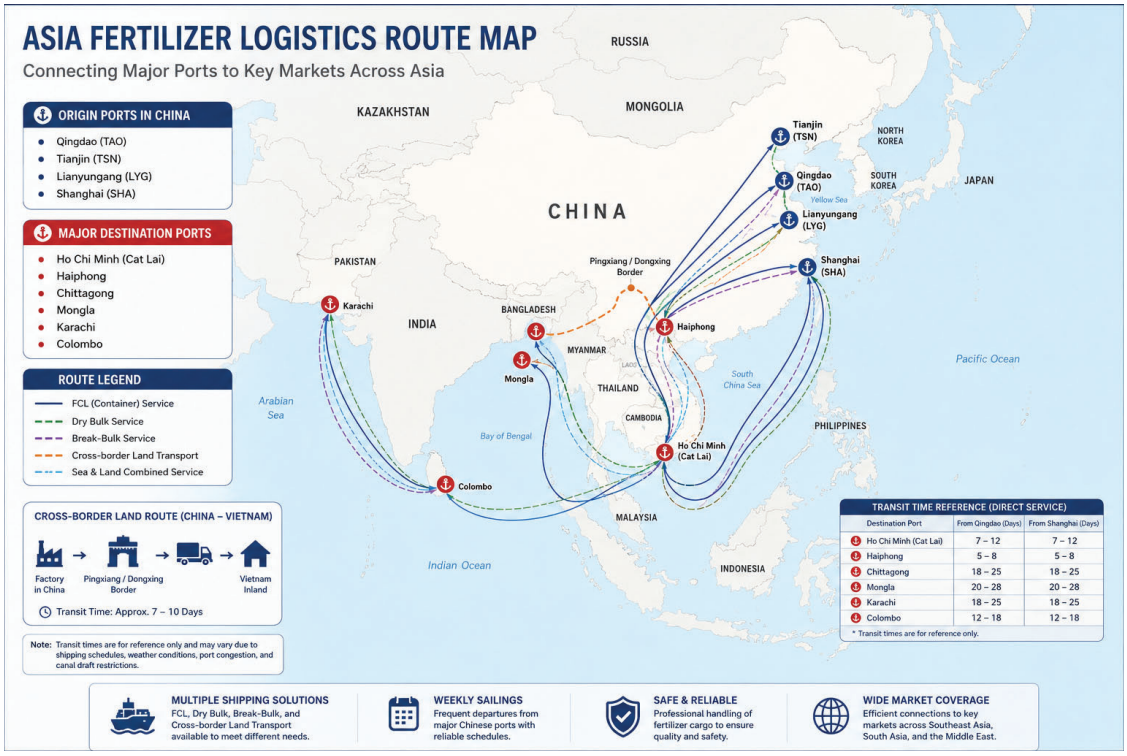
China Origin-Port Network and Destination-Port Framework

The route map covers four origin ports in China—Qingdao (TAO), Tianjin (TSN), Lianyungang (LYG) and Shanghai (SHA)—and six principal destination ports across Vietnam, Bangladesh, Pakistan and Sri Lanka. The service modes and transit times below are references from the route map and must be confirmed against the carrier's actual schedule, cargo type, handling conditions and customer import requirements.

Origin Ports in China: Qingdao (TAO) | Tianjin (TSN) | Lianyungang (LYG) | Shanghai (SHA)

Market	Destination Port	Service Reference	Transit Time*	Operational Notes
Vietnam	Haiphong	FCL / Dry Bulk / Break-Bulk; cross-border land option	5–8 days	North Vietnam gateway. China–Vietnam land route via Pingxiang / Dongxing to inland Vietnam: approx. 7–10 days.
Vietnam	Ho Chi Minh (Cat Lai)	FCL / Dry Bulk / Break-Bulk	7–12 days	South Vietnam gateway; final mode depends on cargo form, order volume and consignee delivery plan.
Bangladesh	Chittagong	FCL / Dry Bulk / Break-Bulk; sea & land combined where arranged	18–25 days	Confirm berth, discharge method, storage and inland transfer conditions for each shipment.
Bangladesh	Mongla	FCL / Dry Bulk / Break-Bulk; sea & land combined where arranged	20–28 days	Confirm vessel suitability, port handling capability and onward inland delivery arrangements.
Pakistan	Karachi	FCL / Dry Bulk / Break-Bulk	18–25 days	Import permits, port operating conditions, cargo handling and seasonal demand to be confirmed.
Sri Lanka	Colombo	FCL / Dry Bulk / Break-Bulk	12–18 days	Confirm fertilizer discharge requirements, storage conditions and project-specific import procedures.

* Direct-service transit-time reference shown on the route map for departures from Qingdao and Shanghai. Actual routing may be direct or via transshipment.



Connecting South and Southeast Asian Markets from China's Main Loading Ports

This page uses a map to show Wood Well Limited's target market coverage. The map does not indicate real-time sailings or exclusive routes; lines are illustrative of business connections from candidate Chinese loading ports to principal destination ports. Port names, regional groupings and route labels should be confirmed with the specific carrier and project conditions.

Route Map Notes

We evaluate shipment options based on product sourcing, packaging, order size, destination-port conditions and the customer delivery schedule. Bagged and FIBC orders typically move in containers or on compatible vessel types; large bulk projects may be considered for bulk carriers depending on handling capability. Specific routes, direct or transshipment, vessel schedules, transit times and freight rates are subject to the carrier's plan at booking.

Logistics Statement: The listing of ports does not imply that any product can be shipped from those ports at any time, nor does it constitute a commitment to fixed routes, freight rates or sailing schedules. Final arrangements are subject to source of supply, export policy, the carrier, port restrictions and the contract.

Category	Sub-category	Product	Chemical Formula	CAS No.	HS Code	Basic Specification (COA Parameters)	Product Features
Urea	Agricultural	Agricultural Granular Urea 46-0-0	CH4N2O	57-13-6	310210	Total N >=46.0%; biuret <=1.0%; moisture <=0.5%; particle size 2.80-4.75 mm; white granules; per GB/T 2440	High-analysis nitrogen fertilizer; large granules facilitate mechanical spreading and BB blending, reducing segregation; available in bags, FIBC/jumbo bags or bulk
		Agricultural Prilled Urea 46-0-0	CH4N2O	57-13-6	310210	Total N >=46.0%; biuret <=1.0%; moisture <=0.5%; particle size 1.00-2.50 mm; white prills	Prills dissolve quickly; suitable for compound fertilizer production and routine application; watch for dust, moisture absorption and caking
	Industrial	Industrial Grade Urea	CH4N2O	57-13-6	310210	Purity >=99.0%-99.5%; total N >=46.0%; granular/prilled/crystalline; biuret, aldehydes, metal ions and water insolubles controlled per end use	Resins, melamine, adhesives, chemical synthesis, industrial DeNOx
	Automotive	Automotive Grade Urea Raw Material — High-Purity Solid	CH4N2O	57-13-6	310210	Purity >=99.5%; low biuret; strictly controlled aldehydes, phosphates, metal ions and insolubles	Feedstock for SCR reductant in diesel engine systems; requires dedicated clean packaging, cross-contamination prevention and batch COA
DAP	Agricultural	Diammonium Phosphate (DAP) 18-46-0, Granular	(NH4)2HPO4	7783-28-0	310530	Total N >=18.0%; available P2O5 >=46.0%; water-soluble P per contract; particle size 2.00-4.75 mm; dark grey/brown granules; per GB/T 10205	High-analysis N-P fertilizer; basal and starter fertilizer for grain and cash crops; NPK/BB raw material; colour varies with phosphate rock source and process
	Industrial/ Technical	Technical / Industrial Grade Diammonium Phosphate	(NH4)2HPO4	7783-28-0	310530	Main content >=98.0%; white/colourless crystals or crystalline powder; pH, water insolubles and heavy metals controlled per end use	Flame retardant, fermentation nutrient, water treatment, fine chemicals
MAP	Agricultural	Monoammonium Phosphate (MAP) 11-52-0, Granular	NH4H2PO4	7722-76-1	310540	Total N >=11.0%; available P2O5 >=52.0%; water-soluble P per contract; particle size 2.00-4.75 mm; light grey/beige granules	High-analysis N-P fertilizer; phosphorus source for alkaline soils; basal/starter fertilizer; NPK/BB raw material
	Agricultural	Powdered Monoammonium Phosphate (MAP) 10-49-0 / 10-50-0	NH4H2PO4	7722-76-1	310540	Total N ~10%; available P2O5 ~49% or ~50% (the two grades to be confirmed separately); grey-white/off-white powder; moisture and fineness per contract	Compound fertilizer granulation, NPK production, industrial fertilizer formulation; 10-49-0 and 10-50-0 must be quoted and contracted separately
	Industrial Technic al	Technical / Industrial Grade Monoammonium Phosphate	NH4H2PO4	7722-76-1	310540	Content >=98.0%; white/colourless crystals or crystalline powder; pH, chloride/sulphate and metal ions controlled per end use	Flame retardant, dry powder fire extinguishing agent, fermentation, fine chemicals
Ammonium Sulphate	Caprolactam	Caprolactam grade Ammonium Sulphate, Crystalline	(NH4)2SO4	7783-20-2	310221	Total N >=21.0%; sulphur (S) >=24.0%; moisture <=1.0%; particle size 0.5-2.0 mm; white/off-white crystals; per GB/T 535	Dual nitrogen-sulphur source; sulphur nutrition supplement; NPK/BB raw material; superior purity and colour
	Coke oven	Coke oven / By-product Ammonium Sulphate, Crystalline	(NH4)2SO4	7783-20-2	310221	Total N >=20.5%-21.0%; sulphur (S) >=23%-24%; moisture <=1.0%; particle size 0.2-2.0 mm (wide distribution); white/off-white/pale yellow crystals	Cost-effective nitrogen-sulphur fertilizer; compound fertilizer production and BB blending; note iron, free acid, colour and impurities; must be quoted separately from caprolactam grade

WOOD WELL LIMITED

FERTILIZER FOR A BRIGHTER TOMORROW

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Contact Us

WOOD WELL LIMITED
Reg: Hong Kong, China

Tel / WhatsApp: +1-647-901-3887

Email: HOVER@WOODWELL.NET

Web: www.woodwellagro.com

Visit Our Website

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