



SHANDONG TERAFFON FERTILIZER CO.,LTD

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TERAFON FERTILIZER

Tailor-Made Fertilizer Formula, Nutrient Ratios, and Packaging Options.



**ENABLE MORE GROWERS
TO GAIN GREATER BENEFITS !**

PRODUCT CATALOG

<https://terafert.com/>



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COMPANY PROFILE

DRIVEN BY TECHNOLOGY AND LEADING IN PRODUCTS.

SHANDONG TERAFFON FERTILIZER CO.,LTD., referred to as TERAFFON for short, is the first “National Manufacturing Champion Enterprise” in the compound fertilizer industry and a national high-tech enterprise in the advanced fertilizer industry. It also ranks first among the top ten leading brands in the humic acid fertilizer industry.

The company has established four national level scientific research platforms, including the National Enterprise Technology Center, the National Post-doctoral Research Workstation, and the Key Laboratory of Humic Acid Fertilizer of the Ministry of Agriculture and Rural Affairs.

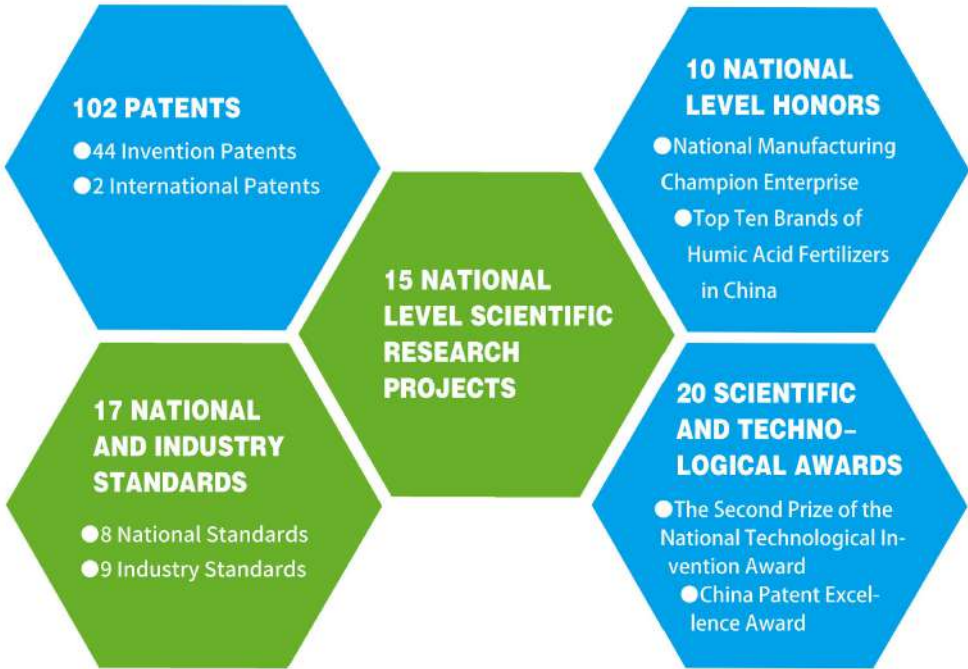
The four core technologies independently developed by our company, namely humic acid activation, controlled release fertilizer, biological prevention and control, and soil conditioning, have reached the national leading level.

It has drafted 14 national and industrial standards such as "Humic Acid Compound Fertilizer" and has been granted 76 national patents. The key technology of humic acid has received the “China Patent Excellence Award”



- ① Office building
- ② Microbial workshop
- ③ ④ Controlled release fertilizer workshop
- ⑤ Extrusion workshop
- ⑥ Fulvic acid workshop
- ⑦ ⑧ ⑨ ⑩ ⑪ Finished product warehouse
- ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ Compound fertilizer workshop
- ⑱ ⑲ ⑳ ㉑ Raw material warehouse
- ㉒ Intelligent workshop
- ㉓ Soil conditioner workshop
- ㉔ Humic acid workshop
- ㉕ SOP workshop
- ㉖ Water soluble fertilizer workshop
- ㉗ BB fertilizer workshop
- ㉘ Spare parts warehouse
- ㉙ Big data center

ENTERPRISE HONORS



AGRICULTURAL GRADE UREA

PREMIUM HIGH-NITROGEN FERTILIZER

KEY FEATURES & BENEFITS OF TERA FON® UREA 46% PRILLED

- 1.PRODUCT ADVANTAGES**

Delivers a concentrated nitrogen source that supports vigorous plant growth, improves nutrient uptake, and reduces overall application and transportation costs.
- 2.EXCELLENT WATER SOLUBILITY**

Prilled structure dissolves quickly and completely, making Terafon® ideal for fertigation and foliar feeding programs where rapid nutrient availability is essential.
- 3.UNIFORM PRILL SIZE**

Ensures smooth flowability, precise metering, and uniform spreading in mechanical applicators—supporting consistent field distribution and reduced nutrient loss.
- 4.LOW MOISTURE & LOW IMPURITY**

Minimized moisture content and low biuret levels enhance product stability, storage safety, and crop compatibility.
- 5.VERSATILE AGRICULTURAL APPLICATIONS**

Suitable for cereals, fruits, vegetables, oilseeds, plantations, and for blending into high-quality NPK compound fertilizers.



SLOW / CONTROLLED RELEASE UREA Coated Urea



Sulfur-Coated Urea (SCU) Detailed Specifications

Terafon® Sulfur-Coated Urea (SCU) is an advanced controlled-release nitrogen fertilizer engineered with a high-quality sulfur coating that slows nitrogen release, enhances nutrient efficiency, and reduces environmental loss. SCU provides a stable, long-lasting nitrogen supply while delivering essential sulfur to support protein synthesis and overall plant metabolism. Ideal for modern precision agriculture and long-season crops, Terafon® SCU offers improved performance, reduced application frequency, and greater nutrient-use efficiency across diverse soils and crops.

Polymer-Coated Urea (PCU) Detailed Specifications

Terafon® Polymer-Coated Urea (PCU) is a premium controlled-release nitrogen (CRN) fertilizer engineered to deliver a consistent and predictable nitrogen supply throughout the entire crop cycle. Using advanced polymer membrane technology, PCU minimizes nitrogen loss from volatilization, leaching, and denitrification—significantly improving nitrogen use efficiency (NUE) and overall crop performance. With customizable release periods ranging from 30 to 360 days, Terafon® PCU is ideal for high-value crops, turfgrass, orchards, field crops, and professional NPK blending.



Won the second prize of the 2023 National Technological Invention Award

The award-winning achievement tackles problems related to the modification, quality improvement, efficiency enhancement, safety and environmental protection of traditional coating materials, and actively responds to the major national rural revitalization strategy. After over 10 years of joint technological research, it innovatively utilizes green bio-based degradable coating materials, optimizes and upgrades the coating process, and has been successfully applied to various new products, such as coated urea, coated potassium chloride and coated compound fertilizers. As a result, the performance of membrane materials is improved, and nutrient synergy, reduction and efficiency increase are achieved.

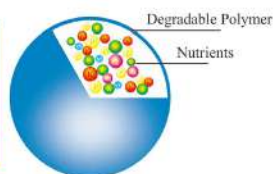


Products list

Analysis	Longevity at 25°C (Soil Temp)	Initial Release Rate (25°C Still Water)	Cumulative Release Rate 28 days	Size
N ≥ 45.0%	30 days	Max 12%	Max 85%	2.00-4.75 mm Min 90%
N ≥ 45.0%	60 days	Max 5.0%	Max 50%	2.00-4.75 mm Min 90%
N ≥ 44.5%	90 days	Max 5.0%	Max 40%	2.00-4.75 mm Min 90%
N ≥ 43.5%	120 days	Max 5.0%	Max 30%	2.00-4.75 mm Min 90%

Longevity

		Longevity of different products		
		45-0-0 (30d)	45-0-0 (60d)	44-0-0 (90d)
Soil tem	15°C	45 d	90 d	120d
	25°C	30 d	60 d	90d
	30°C	15 d	45 d	60d



PRODUCT FEATURES

1、Using high - tech membrane material which is easy to degrade and control the release of nutrients intelligently.

We adopt the fifth - generation high - tech membrane material and control the release of nitrogen in an intelligent way. As a result, the release curve is in an "S" shape, and the nutrient supply is balanced and sufficient.

2、Higher nitrogen content and longer release period.

Ultra - thin film materials are utilized to produce polymer - coated urea with a high nitrogen content, which is suitable for the production of formulated fertilizers. The release period is relatively long, and the release rate is in line with the fertilizer - requirement pattern of crops, thus meeting the full - season nutritional requirements of crops. There will be no seedling burning in the early stage and no fertilizer deficiency in the later stage.

3、Environment - friendly and safe in use.

During the production of this product, no solvents are used. It is non - toxic, generates no waste, causes no pollution, and has zero emissions. At the application stage, the amount of fertilizer used is reduced, which can cut down on nitrogen loss. It is not likely to volatilize or leach, reduces the nitrogen build - up in the soil, decreases its salinization level, and saves both fertilizer and energy.

4、Economical and efficient, saving labor and time

Applying fertilizer once during the growing season can meet the nutritional needs of crops for the entire season, reduce the number of fertilization times, and save labor, time, and fertilization costs.

PRODUCT ADVANTAGES

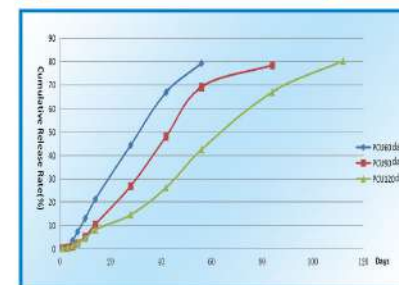
1、Particles are highly uniform.

A unique screening system is adopted to conduct secondary screening of large - particle urea, only retaining particles between 2.0 and 4.75mm. The particles have a high degree of uniformity and the controlled - release effect is more stable.

2、It can be treated to prevent floating.

Anti - floating treatment can be carried out for the products used in paddy fields. The efficient and environmentally friendly anti - floating technology can reduce the floating rate of fertilizers.

25°C water



3、The controlled-release period is longer

The controlled-release period of general polymer-coated urea products is 2 months. By adjusting the formula of the membrane material, the controlled-release period can be extended to 3 - 6 months under the same coating rate.





Terafon® Ammonium Chloride (NH₄Cl) is a high-purity fast-acting nitrogen fertilizer combining ammoniacal nitrogen with chloride. Designed for rapid nutrient availability, it supports early crop growth, enhances tillering, and improves stress tolerance. With approximately 25% nitrogen and 65% chloride, Terafon® NH₄Cl is particularly effective for chloride-tolerant crops such as rice, wheat, barley, cotton, and certain vegetables.

Ammonium Chloride Detailed Specifications

Ammonium Sulfate Detailed Specifications

Terafon® Ammonium Sulfate is a high-purity, fast-acting fertilizer that provides both nitrogen (N) and sulfur (S)—two essential nutrients for healthy crop growth. Its uniform granular form ensures excellent handling, precise application, and rapid dissolution, supporting efficient nutrient uptake.

With approximately 21% nitrogen and 24% sulfur, Terafon® Ammonium Sulfate is ideal for sulfur-deficient soils and crops that require balanced N + S nutrition, including cereals, rice, wheat, maize, cotton, vegetables, fruit trees, and turfgrass. It is also compatible with NPK fertilizer blends promoting sustainable high-yield production while improving soil fertility.





SPECIALIZED FERTILIZERS

1. What is Crop-Specific Professional NPK Fertilizer?

Crop-Specific Professional NPK Fertilizer is a tailored nutrient solution designed for cereals, vegetables, fruits, and tubers, providing precise nitrogen, phosphorus, and potassium ratios to maximize growth and yield.

2. How do I choose the right NPK formula for my crop?

Selection is based on soil tests, crop type, and growth stage. Our experts can recommend the optimal nutrient ratio to ensure efficient uptake and healthy development.

3. What are the benefits of using Crop-Specific NPK Fertilizer?

It improves nutrient use efficiency, supports uniform growth, enhances yield and quality, strengthens root systems, and maintains long-term soil fertility.

Rice Fertilizer	Corn Fertilizer	Tobacco Fertilizer	OIL PALM Fertilizer
Wheat Fertilizer	Sorghum Fertilizer	Cassava & Sweet Potato Fert	Tomato Fertilizer
Cucumber Fertilizer	Chili Fertilizer	Tropical Fruit Fertilizer	Orange Fertilizer



Water Soluble Fertilizer

- FUNCTIONAL-SOLUBLE-FERTILIZER
- MACRONUTRIENT-SOLUBLE-FERTILIZER
- MICRONUTRIENT-SOLUBLE-FERTILIZER
- SECONDARY-NUTRIENT-FERTILIZER

Four major functions

1、 It promotes the formation of soil aggregate structure, breaks up soil compaction, reduces salinity and alkalinity, improves the soil condition and boosts root growth and seedling strengthening. It also alleviates soil-borne diseases such as dead plants and rotten seedlings caused by secondary soil salinization and continuous cropping obstacles.

2、 It promotes flower bud differentiation, resulting in a large number of flowers, concentrated fruit setting, fast fruit expansion and a high fruit setting rate. It can also solve the problems such as the imbalance of soil nutrient proportions, the phenomena of plants flowering but failing to bear fruit and having a low fruit setting rate.

3、 It promotes the rapid expansion of fruits, making their surfaces smooth, ensuring uniform coloring, improving taste, enhancing storage tolerance, increasing the marketability rate and bringing high economic benefits.

4、 It promotes the activity of beneficial microorganisms, creates a favorable growth environment for crop growth, makes crops stronger, improves the physiological resistance of crops, reduces pests and diseases, and increases production, quality and income.

Product Formulations	Humic Acid Content	Fulvic Acid Content	Nitrate Nitrogen	Product Specification
16-6-36	0.60%	0.40%	9%	5Kg
20-10-30	0.60%	0.40%	6%	5Kg
20-20-20	0.60%	0.40%	4%	5Kg
10-40-10	0.60%	0.40%	---	5Kg
30-10-10	0.60%	0.40%	---	5Kg
Formulas and packaging specifications can be produced on a customized basis				

APPLICABLE CROPS

It mainly applies to different growth periods of economic crops such as vegetables, fruit trees, melons and fruits, solanaceous fruits, and root and stem crops.

METHOD OF USE

1、 Flush application: 120-150kg/ha, diluted 300 - 500 times. Apply top dressing 3 - 6 times, with an interval of 10 - 15 days each time.

2、 Drip irrigation: 75-120kg/ha, diluted 500 - 800 times, with an interval of 7 - 10 days each time.

3、 Spray application: Dilute 800 - 1000 times. Spray 5 - 8 times, with an interval of 10 - 15 days each time.

4、 It is suggested that the dosage be appropriately increased or decreased according to crop variety, soil fertility, different climates, crop growth conditions, etc.



Ca-Mg-S Liquid Fertilizer

Delivers essential liquid nutrients such as calcium, magnesium, and sulfur to strengthen plant structure, improve nutrient balance, and support healthy development for optimal crop performance.

Micronutrient Liquid Fertilizers

Supplies liquid trace elements including zinc, boron, manganese, and copper to correct deficiencies, optimize plant metabolism, and enhance crop quality while maintaining overall nutrient balance effectively.

Liquid Macronutrient Fertilizer

Provides a well-balanced liquid blend of nitrogen, phosphorus, and potassium to support consistent crop growth, enhance yield quality, and maximize nutrient efficiency while improving soil fertility.

Potassium Humate Solution

Offers a high-quality potassium humate liquid to enhance soil properties, boost nutrient uptake, improve stress tolerance, and support strong root development and vigorous plant growth consistently.





Organic-inorganic Fertilizer

1. What is Organic-Inorganic Compound NPK Fertilizer?

Organic-Inorganic Compound NPK Fertilizer combines essential nutrients—nitrogen (N), phosphorus (P₂O₅), and potassium (K₂O)—with organic matter to improve soil structure, enhance nutrient retention, and provide balanced crop nutrition over time.



2. How to choose the right formulation for my crop?

The optimal formulation depends on crop type, soil fertility, and growth stage. Terafon offers low, medium, and high organic matter options, ensuring precise nutrient supply for cereals, vegetables, fruits, and oilseeds. Soil testing can guide the best selection.

3. What are the benefits of Organic-Inorganic Compound NPK?

This fertilizer enhances soil health, boosts nutrient uptake efficiency, reduces nutrient loss, promotes steady root and vegetative growth, and increases crop yield and quality compared to conventional NPK fertilizers.

Low Organic NPK Fertilizer

NPK 4-5-6	NPK 4-6-5	NPK 5-4-6	NPK 5-5-5
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Medium Organic NPK Fertilizer

NPK 4-6-8	NPK 5-10-10	NPK 10-10-10	NPK 15-5-10
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High Organic NPK Fertilizer

NPK 12-12-17	NPK 14-14-14	NPK 15-15-15	NPK 16-16-16
NPK 20-10-10	NPK 26-10-10	NPK 30-10-10	Custom Organic NPK

STANDARD GRANULAR NPK



1. What is NPK fertilizer?

NPK fertilizer contains nitrogen (N), phosphorus (P) and potassium (K) in specified ratios. It provides balanced nutrition for crop growth.

2. How to choose the right NPK ratio for my crop?

Choose based on soil test, crop stage and target yield. For example, cereals often need higher nitrogen while fruiting crops require higher potassium.

Provides a well-balanced combination of nitrogen, phosphorus, and potassium to support uniform plant growth, improve yield quality, and enhance soil fertility efficiently.



BALANCED NPK FERTILIZER

NPK 5-5-5
NPK 14-14-14
NPK 18-18-18
NPK 9-9-9
NPK 15-15-15
NPK 19-19-19
NPK 10-10-10
NPK 16-16-16
NPK 20-20-20
NPK 12-12-12
NPK 17-17-17
BALANCED CUSTION

HIGH-POTASSIUM NPK FERTILIZER

NPK 5-10-20
NPK 12-10-30
NPK 10-15-20
NPK 15-5-20
NPK 10-20-30
NPK 15-5-30
NPK 12-6-22
HIGH-K CUSTOM

NP & NK FERTILIZER

NP 7-5-0
NK 18-0-16
NP 7-21-0
NK 17-0-17
NP 10-46-0
NP 20-0-10
NP 16-20+12S
NK 42-0-5

HIGH-NITROGEN NPK FERTILIZER

NPK 20-5-5
NPK 26-10-10
NPK 20-10-10
NPK 30-5-5
NPK 24-8-12
NPK 30-10-10
NPK 25-5-15
HIGH-N CUSTOM

HIGH-PHOSPHORUS NPK FERTILIZER

NPK 6-25-19
NPK 10-40-10
NPK 10-20-10
NPK 12-24-12
NPK 10-26-10
NPK 12-36-12
NPK 10-30-20
HIGH-P CUSTOM

Key Benefits of Our NPK Compound Fertilizers

Promote Healthy Plant Growth: Supports strong root systems and overall plant vigor.
Increase Crop Yield: Achieve higher and more consistent yields with optimized nutrition.
Sustainable and Safe: Manufactured with environmentally responsible processes for sustainable farming practices.
Easy to Use: Simple application for quick results and improved soil fertility.

Controlled Release Fertilizer



What are the benefits of Controlled-Release NPK?

Controlled-release reduces nutrient losses, improves nutrient use efficiency and lowers application frequency.



Short-Term CR NPK (30 Days)

Designed for short-cycle crops, this controlled-release fertilizer delivers essential nitrogen, phosphorus, and potassium steadily over a 30-day period.

Medium Short-Term CR (60 Days)

Provides reliable nutrient supply for two months, supporting early growth and vigorous vegetative development of a wide range of crops effectively.

Medium Long-Term CR (90 Days)

Ensures a steady release of nitrogen, phosphorus, and potassium over three months, enhancing crop growth, yield, and overall nutrient use efficiency.

Long-Term CR NPK (120 Days)

Formulated for long-season crops, this slow-release fertilizer supplies balanced nutrients over 120 days, supporting strong roots and healthy growth.

INDUSTRIAL GRADE CHEMICALS



Automotive Grade Ureal (SCR)

High-purity urea granules for SCR systems, ensuring efficient NO_x reduction, consistent performance, and reliable operation in diesel engines.

Industrial Urea

High-purity industrial urea for various applications, ensuring consistent quality, reliable performance, and efficient nitrogen supply for chemical processes.

Technical Grade Urea

High-purity urea for industrial and technical applications, suitable for chemical intermediates and high-quality fertilizer manufacturing.

Capro Grade Ammonium Sulfate

High-purity capro grade ammonium sulfate for industrial use, ensuring consistent quality and reliable nitrogen and sulfur supply for caprolactam production.

Industrial Ammonium Sulfate

High-purity ammonium sulfate for industrial applications or fertilizer intermediates, ensuring consistent quality and nitrogen-sulfur balance.

Industrial Calcium Sulfate

High-quality calcium sulfate for industrial or fertilizer applications, ensuring consistent calcium and sulfur content.

Industrial Magnesium Oxide

High-purity magnesium oxide for industrial use or fertilizer production, ensuring reliable magnesium supply and chemical stability.

Industrial Magnesium Sulfate

Industrial-grade magnesium sulfate for fertilizer or chemical applications, providing consistent magnesium and sulfur content.





Humic Acid Salts

Potassium, sodium, or ammonium humate improves soil structure, enhances nutrient retention, stimulates roots, reduces leaching, and increases fertilizer efficiency for consistent crop growth.

Water-Soluble Humic

Water-soluble humic or fulvic fertilizers dissolve fully for fertigation, unlock nutrients, enhance soil structure, accelerate root uptake, and support fast and uniform crop growth in all systems.

Fulvic Acid Fertilizer

Fulvic acid chelates micronutrients for easy uptake, improves root and shoot development, enhances stress tolerance, and increases overall crop vigor, yield, and nutrient use efficiency.

Liquid Humic Acid

Liquid humic acid boosts soil bioactivity, improves microbial health, enhances nutrient absorption, buffers soil pH, and strengthens roots and shoots for healthier crops under diverse conditions.

Humic acid Fertilizer



Amino acid Fertilizer

Liquid Amino Acid Fertilizer

Liquid amino acid fertilizers supply organic nitrogen and amino compounds, stimulate metabolism, improve protein synthesis, enhance stress tolerance, and support strong vegetative growth in crops.

Water-Soluble Amino Acids

Water-soluble amino acids dissolve for foliar or fertigation use, enhance nutrient absorption, boost leaf and root development, support enzyme activity, and promote uniform plant growth efficiently.



Seaweed extract



Liquid Seaweed Extracts

Liquid seaweed extracts supply bioactive compounds, trace elements, and growth regulators to boost root and shoot growth, enhance stress tolerance, and improve overall crop vigor efficiently.



Soluble Seaweed Powders

Water-soluble seaweed powders dissolve easily for fertigation or foliar use, supplying nutrients, stimulating root and shoot growth, improving nutrient uptake, and supporting healthy crop growth.

Granular Seaweed Fertilizer

Granular seaweed fertilizers mix with solid fertilizers to supply bioactive compounds, improve soil structure, boost nutrient efficiency, stimulate growth, and strengthen root and shoot development.

Bio-stimulants

Microbial Biostimulants

Microbial biostimulants add beneficial microbes to improve nutrient cycling, soil structure, root growth, fertilizer efficiency, and plant resilience against stress, disease, and poor soil conditions.

Amino Acid Biostimulants

Amino acid biostimulants supply essential amino acids to support hormone production, enhance nutrient uptake, stimulate growth, improve stress tolerance, and boost overall crop performance.

Seaweed Biostimulants

Seaweed biostimulants supply growth regulators, trace elements, and bioactive compounds to boost nutrient uptake, stimulate root and shoot growth, enhance stress tolerance, and improve crop vigor.

