



**RISSO-CHEMICAL**  
GLOBAL-ORIENTED FERTILIZERS SUPPLIER



# **RISSO CHEMICAL FERTILIZER CO.,LTD**

**China's Leading NPK Compound Fertilizer Brand**



**YOUR EXPERT PARTNER FOR COMPREHENSIVE FERTILIZER SOLUTIONS  
EMPOWERING EXCELLENCE.**





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## Company Introduction



Taian Risso chemical Fertilizer Co., Ltd founded in 1997. is a national key high-tech enterprise specializing in the R&D, production, sales, and agricultural services of innovative fertilizers, including NPK fertilizers, humic acid fertilizers, controlled-release fertilizers, water-soluble fertilizers, bio-fertilizers, and soil conditioner. As the drafting unit for humic acid fertilizer industry standards, the company is the largest production base for active humic acid controlled-release fertilizers in Asia, with an annual production capacity of 2.6 million tons.

At present, With 16 advanced NPK production lines and an annual capacity of 2 million tons, the company employs over 350 experts. Risso's operations extend to more than 60 countries and regions, including Japan, South Korea, Cambodia, Indonesia, India, Brazil, and Canada, earning global recognition for its innovative fertilizer solutions.



## Technology Leading the Future

The company focuses on technological innovation, with four core technologies: AT Rich Soil Circulation Technology, JT Clean Soil Restoration Technology, QT Probiotic Source Technology, and KT Intelligent Blue-Black Carbon Control Technology. It has established over 20 national, provincial, and municipal -level research and honor platforms, undertaken more than 50 research projects at various levels, and led the development of 44 standards, including national, industry, local, corporate, and group standards. The company has been granted 110 patents and received over 10 provincial and ministerial-level science and technology awards.

## Technology Services

Committed to the mission of "making soil healthier and crops more productive," Risso Fertilizer leverages technological services supported by its Agricultural Chemistry Academy. The company has built a three-tier training team consisting of experts, agricultural chemistry professionals, and grassroots promoters. Using demonstration comparisons and on-site observation sessions as its promotion model, it is deeply rooted in grassroots operations, providing customers with professional technical services.





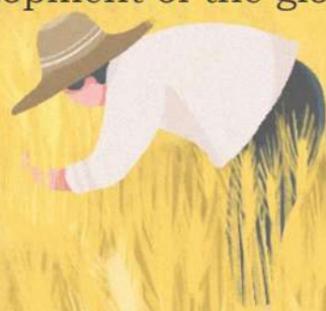
## ENTERPRISE MISSION

ENABLING MORE GROWERS TO

ACHIEVE GREATER BENEFITS...

We are Committed to empowering more growers by providing innovative technologies and high-quality products that enhance soil health and crop productivity, enabling them to achieve greater agricultural benefits.

At the same time, we take on the responsibility of promoting sustainable agriculture through environmentally friendly solutions, contributing to the long-term development of the global agricultural ecosystem.



## R&D STRENGTH

In the past five years, Risso Fertilizer has undertaken 8 national projects, including the "12th Five-Year Plan" National Science and Technology Support Plan, the "13th Five-Year Plan" National Key R&D Plan, the National Spark Plan, and the Central Budget Investment Plan. At the same time, it has carried out extensive and in-depth scientific research cooperation and exchanges with more than 30 domestic and foreign universities and research institutes, including Shandong Agricultural University, National Agricultural Technology Extension Service Center, Nanjing Institute of Soil Science, Chinese Academy of Sciences, Nanjing Agricultural University, and University of Florida, and is committed to the research and development and promotion and application of new fertilizers at home and abroad.



# CORPORATE HONORS

## 110 Invention Patents 2 International Patents

The company has established an exclusive intellectual property system in the fields of NPK compound fertilizers, controlled-release fertilizers, bio-fertilizers, water-soluble fertilizers, and functional fertilizers.

## 10 National-Level Research Projects

Six projects under the "13th Five-Year Plan" National Key R&D Program  
One project under the "12th Five-Year Plan" National Science and Technology Program

## 4 National-Level Honors

- National Champion in NPK Fertilizer Manufacturing
- China Well-Known Trademark
- MIIT Green Design Product
- Demonstration Enterprise
- Top 10 NPK Fertilizer Brands in China

## 12 National and Industry Standards

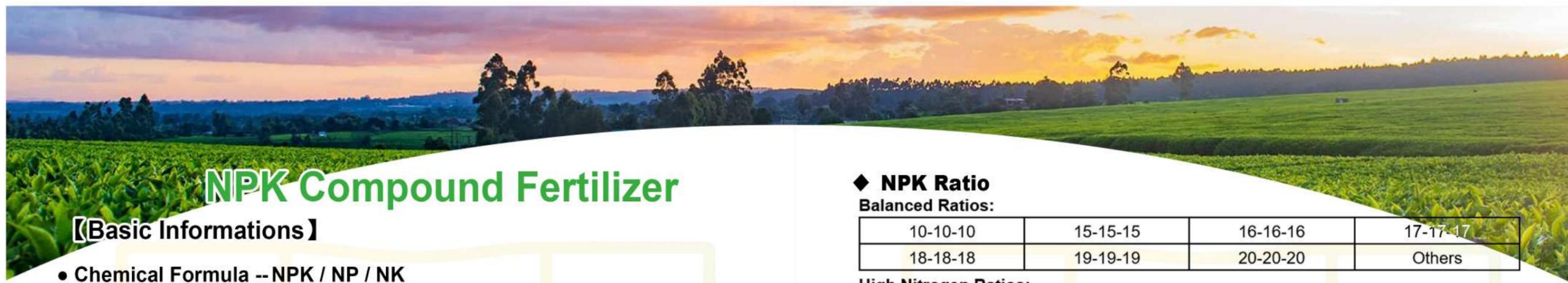
Risso Fertilizer has led the formulation of 6 standards, filling the gap in China's humic acid fertilizer standards.

## 19 Scientific Awards and 2 First Prizes for Scientific and Technological Progress



# FACTORY SHOWCASE





## NPK Compound Fertilizer

### 【Basic Informations】

- Chemical Formula -- NPK / NP / NK
- Nutrition Content --- Nitrogen, Phosphorus, Potassium, Trace Element like MgO, Mn, Cu, Zn, Fe, MO, EDTA...  
We can do OEM produce
- Appearance----- White color Granula, different colors can OEM
- Particle Size----- 2-4mm 290%
- Moisture ----- ≤2.0%
- Package ----- 25kg / 50kg /Jumbo bag  
PP woven bag with PE inner bag, neutral English shipping marks. Bag also can do OEM produce
- Capacity ----- 26~27 tons/20GP container
- ◆ Tumbling Granulation Type



### ◆ NPK Ratio

#### Balanced Ratios:

10-10-10	15-15-15	16-16-16	17-17-17
18-18-18	19-19-19	20-20-20	Others

#### High Nitrogen Ratios:

20-5-5	20-10-10	20-12-12	25-5-15
26-10-10	30-5-5	30-10-10	Others

#### High Phosphorus Ratios:

6-25-19	10-20-10	10-24-12	10-26-10
10-30-20	12-24-12	12-36-12	Others

#### High Potassium Ratios:

5-10-20	10-15-20	10-20-30	12-10-30
12-6-22	15-5-20	15-5-30	Others

#### Specialized Ratios:

5-10-10	5-15-15	5-20-20	6-24-24
10-20-20	10-26-26	12-12-17	13-27-27
20-10-20	20-20-15	20-0-18	Others





## NPK Water Soluble Fertilizer

### 【Basic Informations】

- **Chemical Formula -- NPK**
- **Nutrition Content --- Nitrogen, Phosphorus, Potassium**  
Medium Element like MgO, Ca, S..  
Trace Element like Mn, Cu, Zn, Fe, MO, EDTA...  
We can do OEM produce
- **Appearance----- White Powder, different colors can OEM**
- **Moisture ----- ≤0.2%**
- **Insoluble in Water-- ≤0.2%**
- **Package ----- 5kg/25kg/40KG**  
PP woven bag with PE inner bag, neutral English shipping marks. Bag also can do OEM produce

### ◆ Product Features

- **High Water Solubility.** Made with high purity-grade and food-grade raw material.
- **Various grades of Water Soluble Fertilizer,** such as Sulphure-Based, Nitrate-Based, Urea-Based and Chloride-Based.
- **Fast and efficient absorption,** convenient application, high permeability.
- **High availability,** containing Chelated Microelements to improve the Absorption and Plant Nutrient Efficiency.
- **Environmentally friendly,** More than 60% of the nutrients can be absorbed effectively with almost no pollution to the environment.
- **Widely use for application,** drip irrigation system helps to save up 30% water usage.
- **Unique crystallization technology** helps to avoid moisture absorption and caking problem.

### ◆ NPK Ratio

#### Balanced Ratios:

15-15-15	16-16-16	18-18-18	18-18-18+3MgO+
19-19-19	20-20-20	21-21-21	Others

#### High Nitrogen Ratios:

20-5-15	25-10-10	28-14-14	30-10-10
30-10-10+2MgO	30-15-15	30-20-10	Others

#### High Phosphorus Ratios:

10-52-10	10-53-10	11-44-11	12-31-14
12-32-16	13-40-13	16-45-7	Others

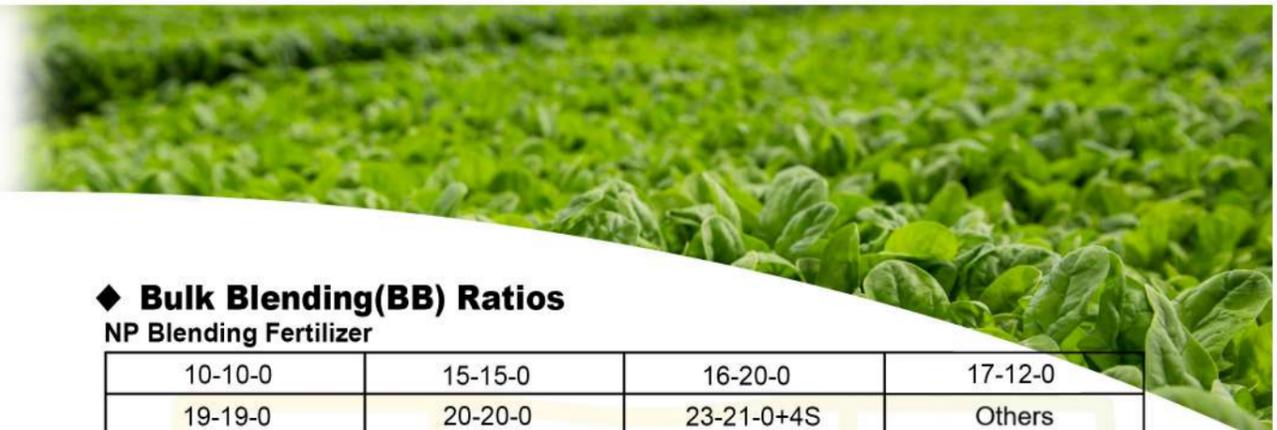
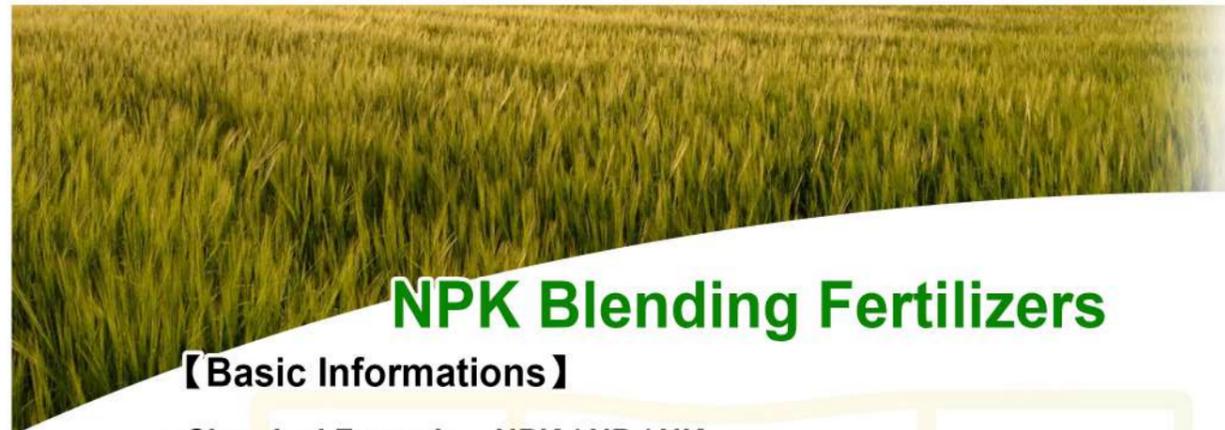
#### High Potassium Ratios:

0-17-33	4-18-38	5-15-45	6-12-36
10-10-40	12-3-43	12-12-36	13-7-24+2MgO
15-5-35+2MgO	16-8-24+2MgO	18-6-26+2MgO	Others

#### Specialized Ratios:

5-10-15	10-20-15	15-5-10	15-30-15+2MgO
16-8-24	20-10-30	20-13-20	Other





## NPK Blending Fertilizers

### 【Basic Informations】

- Chemical Formula -- NPK / NP / NK
- Nutrition Content --- Nitrogen, Phosphorus, Potassium.  
Medium Elements like MgO, S, CaO.  
We can do OEM produce
- Appearance----- Colorful Granula
- Particle Size----- 2-4mm ≥90%
- Moisture ----- ≤0.2%
- Package ----- 25kg / 50KG / Jumbo bag  
PP woven bag with PE inner bag, neutral English shipping marks. Bag also can do OEM produce

### ◆ Product Features

- Versatile Blends: Formulations suitable for a wide range of crops, including grains, vegetables, and fruits.
- Enhanced Crop Performance: Supports healthy root development, strong stems, and higher yields.
- Precision Agriculture Ready: Compatible with modern farming techniques and equipment.
- Eco-Friendly Practices: Reduces nutrient runoff and minimizes environmental impact.
- Exceptional Value: Delivers outstanding performance at a price that fits your budget.

### ◆ Bulk Blending(BB) Ratios

#### NP Blending Fertilizer

10-10-0	15-15-0	16-20-0	17-12-0
19-19-0	20-20-0	23-21-0+4S	Others

#### PK Blending Fertilizer

0-5-35	0-10-20	0-15-20	0-18-18
0-20-10	0-20-20	0-23-20	Others

#### NK Blending Fertilizer

15-00-15+18CaO	19-0-19	20-0-30	Other
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#### NPK Blending Fertilizer

10-10-20	13-13-21	15-15-15	17-17-17
13-13-20	10-20-20	12-12-17+ MgO	12-24-12
18-18-5 +1.5MgO	20-10-10	20-20-20	Others

#### Organic Blending Fertilizer

5-5-5 + 10%	8-8-8 + 10%	10-0-8+10%	Other
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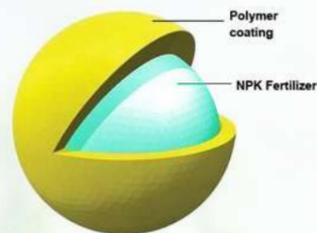




## CONTROL RELEASED NPK Compound Fertilizer

### 【 Basic Informations 】

- Chemical Formula ----- NPK / NP / NK
- Nutrition Content----- Nitrogen, Phosphorus, Potassium  
Medium Element like MgO, Ca, S..  
Trace Element like Mn, Cu, Zn, Fe, MO, EDTA  
We can do OEM produce
- Longevity----- 1M/2M/3M
- Appearance----- Colored Granula, different colors can OEM
- Moisture ----- ≤2%
- Package ----- 25kg/50kg/Jumbo bag  
PP woven bag with PE inner bag, neutral English shipping marks. Bag also can do OEM produce
- Capatity ----- 26~27 tons/20GP container



Item 1: Out surface for Polymer Coat. This coat plays important role when release the nutrient. Because of the speciality of this material and precise coating process, makes the final product with perfect slow release efficiency

Item 2: inside core using our new technology compound fertilizer, makes the appearance with round and uniform size, and the coat cling with the core.



### 【 Product Features 】

- Polymer Coated, centre granula using our new technology compound granula, shape round and uniform.
- According to soil and weather situation, longevity has different choice.
- Continuous Nutrients (NPK) supplement for plants. Nutrients inside release slowly and constantly over several months.
- Increase Yield, Unit Income and fertilizer Use Efficiency.
- Reduce Application Times, Unit Dosage and Nutrient Loss, saves Labor  
Only single application per season,
- Nutrients are protected from immediate disolution, the polymer coat control the nutrients around the root area and slowly release.
- Enhance Root Growth, balance Endogenous Hormones, induce Floral Bud and improve Leaf Color.
- Environmentally friendly.





## Liquid Foliar NPK Fertilizer

### 【Basic Informations】

- Chemical Formula ----- NPK/NP/NK
- Nutrition Content----- Nitrogen,Phosphorus,Potassium  
Medium Element like Mg, ca,..  
Trace Element like Zn, B, Fe..  
We can do OEM produce
- Appearance ----- Clear colored Liquid
- Package ----- 1L/5L/25L/500L/1000L  
Bottle or bucket, attach label can do OEM  
12L/carton
- Capatity ----- around 20tons/20GP container

### 【Series Formulas】

NPK 170-150-170+TE	NPK 450-100-100+TE	NPK 150-300-50+TE	NPK 100-100-30+TE
NPK 170-170-170+TE	NPK 50-400-200+TE	NPK 00-00-450	NPK 100-200-300+TE
NPK 180-180-180+TE	NPK 100-350-100+TE	NPK 40-250-250+TE	NPK 150-50-300+TE
NPK 200-200-200+TE	NPK 100-400-100+TE	NPK 50-200-400+TE	NPK 110-80-60+TE
NPK 200-120-85+TE	NPK 100-400-200+TE	NPK 80-50-280+TE	NPK 100-100-80+TE
NPK 420-00-00	NPK 100-600-100+TE	NPK 100-50-350+TE	Other



### NPK 170-170-170+TE

#### Specification

Nitrogen(N)Content -----	170
Phosphorus(P205) Content -----	170
Potassium(K20) Content -----	170
Magnesium Oxide (MgO) Content -----	30
Iron(Fe)Content -----	0.3
Copper(Cu)Content -----	0.5
Zinc (Zn)Content -----	0.5
Boron (B)Content -----	0.8
Appearance -----	Clear Liquid



### NPK 150-300-50+TE

#### Specification

Nitrogen(N)Content -----	150
Phosphorus(P205) Content -----	300
Potassium(K20) Content -----	50
Magnesium Oxide (MgO) Content -----	50
Iron(Fe)Content -----	0.3
Copper(Cu)Content -----	0.5
Zinc (Zn)Content -----	0.5
Boron (B)Content -----	0.8
Appearance -----	Clear Liquid



### NPK 100-100-300+TE

#### Specification

Nitrogen(N)Content -----	100
Phosphorus(P205) Content -----	100
Potassium(K20) Content -----	300
Magnesium Oxide (MgO) Content -----	50
Iron(Fe)Content -----	0.2
Copper(Cu)Content -----	0.3
Zinc (Zn)Content -----	0.3
Boron (B)Content -----	0.3
Appearance -----	Clear Liquid





## Organic Fertilizer

### 【Basic Informations】

- Nutrition Content --- Nitrogen, phosphorus, potassium.  
Trace elements calcium, magnesium, sulfur, iron, manganese, zinc, etc. We can do OEM production
- Organic matter ----- Optional range 30% – 50%.
- Appearance ----- Black / Green or Brown Particles
- Particle Size ----- 0.5MM-5mm
- pH value ----- 6.5 – 10
- Package ----- 10kg/25kg/50kg/Jumbo bag  
PP woven bag with PE inner bag, neutral English shipping marks.  
Bag also can do OEM produce
- Standard compliance: NY884-889 | 2012

### 【Basic Informations】



### Poultry Manure Fertilizer

#### Specification

Organic matter ----- 30% ~ 50%.  
pH value ----- 6.5 – 8.0  
Trace elements ----- CA, Mg, S, Fe, Zn etc.  
Humidity ----- 20% ~ 30%.  
Particle size ----- 1 ~ 5 mm.  
Temperature ----- 15°C ~ 35°C.



### Bio Organic Fertilizer

#### Specification

Active Microbial ----- ≥6.0 billion CFU/g.  
Organic Matter ----- ≥50%  
Product Form ----- Granules  
Particle size ----- 3 ~ 5 mm.  
Standard ----- NY884-2012  
Trace elements ----- CA, Mg, S, Fe, Zn etc.



### Seaweed Fertilizer

#### Specification

Alginate ----- ≥18%  
Organic matter ----- ≥45%  
Solubility ----- ≥99%  
pH value ----- 8-10  
Particle size ----- 0.5 – 2 mm  
Trace elements ----- CA, Mg, S, Fe, Zn etc.



### Microbial Fertilizer

#### Specification

Active Bacterial ----- ≥200 million/g  
NPK Content ----- 20% (18-0-2)  
Product Form ----- Powder  
Active Strain ----- Bacillus amyloliquefaciens  
pH value ----- 7.5 ~ 9  
Trace elements: ----- CA, Mg, S, Fe, Zn etc.





## Humic Acid Fertilizer



### Potassium Humate Solution

#### Specification

Humic Acid Content -----  $\geq 12\%$   
Potassium (K<sub>2</sub>O) -----  $\geq 6\%$   
pH ----- 9-11  
K<sub>2</sub>O(dry basis) ----- 1%min  
Appearance ----- Black or dark brown liquid



### Humic Acid For Organic Fertilizer

#### Specification

Active humic acid ----- 10%  
Potassium -----  $\geq 3\%$   
Grade Standard ----- Agriculture  
Water solubility ----- 95%  
PH ----- 8-9  
Appearance ----- Black granular



### Humic Acid Fertilizer For Water Flush

#### Specification

Active humic acid ----- 15%  
Potassium -----  $\geq 3\%$   
Grade Standard ----- Agriculture  
Water solubility ----- 100%  
PH ----- 8-9  
Appearance ----- Black powder



### Humic Acid Compound Fertilizer

#### Specification

Active humic acid ----- 3%  
Ammonium Nitrogen ----- Customizable  
Diammonium Phosphate -- Customizable  
Potassium Sulphate ----- Customizable  
Water solubility ----- 96%  
Appearance ----- Black granular



### Humic Acid Fertilizer For Drip Irrigation

#### Specification

Active humic acid ----- 3%  
Ammonium Nitrogen ----- Customizable  
Diammonium Phosphate -- Customizable  
Potassium Sulphate ----- Customizable  
Water solubility ----- 98%  
Appearance ----- Black granular



### Potassium Fulvate Fertilizer

#### Specification

Active humic acid ----- 3%  
Fulvic acid ----- 55%  
Potassium oxide ----- 12%  
PH ----- 9-10  
Water soluble ----- 100%  
Appearance ----- Powder/Flake



### Microbial Fertilizer

#### Specification

Water Soluble Humate ----- 85%  
Soluble Potassium(K<sub>2</sub>O) --- 10-12%  
Iron Chelate (Fe) ----- 1%-2%  
Zinc Chelate (Zn) ----- 700ppm  
Magnesium Chelate (Mg) --1%  
Magnesium Chelate (Mg) ---1%



### Potassium Humate

#### Specification

Active humic acid ----- 60-65%  
Potassium -----  $\geq 10\%$   
Grade Standard ----- Agriculture  
Water solubility ----- 99%  
PH ----- 9-10  
Appearance ----- Black flakes





## Nitrogen Fertilizer

### UREA Series



ITEMS	UREA Granula	UREA Prilled	Ploymer Coated UREA
Chemical Formula	CO(NH <sub>2</sub> ) <sub>2</sub>		
HS Code	31021000		
Total Nitrogen (N)	≥46%	≥46%	≥44%
Biuret	≤1.0%	≤1.0%	≤1.0%
Moisture	≤0.5%	≤0.5%	≤0.5%
Appearance	White Color Granula	ITEMS	Colorful Granula
Particle Size	2-4.75mm ≥90%	0.85-2.8mm ≥90%	2-4.75mm ≥90%
Packing	50kg PP woven bag with PE inner bag, Neutral English shipping marks; 500kg /1000kg Jumbo bag with inner bag, Neutral English shipping marks.		
Capacity	22.5tons/20GP		

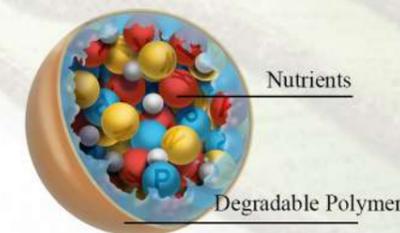


### Polymer-Coated Urea(PCU)

Analysis	Longevity at 25°C(Soil Temp)	Initial Release Rate (25°C Sitll 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 12%	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	120 d
	25°C	30 d	60 d	90 d
	30°C	15 d	45 d	60 d



### Sulfur-Coated Urea(SCU)

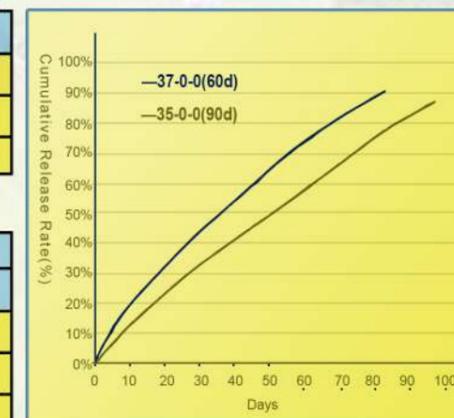
Analysis	Longevity at 25°C(Soil Temp.)	Initial nutrient release rate at 38	Size
35-0-0(90d)	90 days	Max 15%	2.0-4.75mm Min 90%
37-0-0(60d)	60 days	Max 25%	2.0-4.75mm Min 90%
39-0-0(30d)	30 days	Max 35%	2.0-4.75mm Min 90%

### Produc analysis

	35-0-0	37-0-0	39-0-0
Total Nitrogen	35%	37%	39%
Urea Nitrogen	35%	37%	39%
Sulfur Min	20%	15%	10%

### Longevity

		Longevity of different products		
		35-0-0	37-0-0	39-0-0
Soil tem	15°C	120 d	90 d	45 d
	25°C	90 d	60 d	30 d
	30°C	70 d	45 d	15 d





**AMMONIUM SULPHATE**



ITEMS	Caprolactam Grade	Steel Crade
Chemical Formula	(CH4)2S04	
HS Code	31022100	
Total Nitrogen (N)	≥21%	≥20.5%
Sulphur (S)	≥24%	≥23.5%
Free Acid (H2SO4)	≤0.01%	≤0.01%
Insoluble in Water	≤0.02%	≤0.5%
Moisture	≤0.2%	≤1.5%
Iron (Fe)	≤0.007%	/
Plumbum (Pb)	≤0.005%	/
Arsenic (As)	≤0.0005%	/
Appearance	White Crystal Powder	White Compacted Granula
Particle Size	0-4mm ≥90%	2-5mm ≥90%
Packing	50kg PP woven bag with PE inner bag, Neutral English shiping marks; 500kg / 1000kg Jumbo bag with inner bag, Neutral English shiping marks.	
Capacity	27tons/20GP	

※PS:

1. We can color the goods as customers requirements.
2. For Caprolactam Grade, we can sieve the goods, to match different particle size needs.

**Alternative Nitrogen**



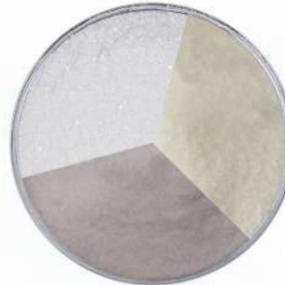
ITEMS	Ammonium Chloride	Ammonium Bicarbonate	Calcium Ammonium Nitrate
Chemical Formula	NH <sub>4</sub> Cl	NH <sub>4</sub> HCO <sub>3</sub>	Ca(NO <sub>3</sub> ) <sub>2</sub> ·NH <sub>4</sub> NO <sub>3</sub>
HS Code	3102.20	3102.80	3105.10
Total Nitrogen (N)	≥25% (NH <sub>4</sub> <sup>+</sup> )	≥17% (NH <sub>4</sub> <sup>+</sup> )	≥15.5% (NH <sub>4</sub> <sup>+</sup> ) (NH <sub>3</sub> <sup>-</sup> )
Free Acid (H2SO4)	≤0.01%	≤0.01%	≤0.01%
Insoluble in Water	≤0.02%	≤0.02%	≤0.01%
Moisture	≤0.2%	≤0.2%	≤0.1%
Iron (Fe)	≤0.007%	/	/
Plumbum (Pb)	≤0.005%	/	/
Arsenic (As)	≤0.0005%	/	/
Appearance	White Crystals or White Granules		White or Yellow Granules
Particle Size	0-4mm ≥90%		2-5mm ≥90%
Packing	25, 50kg Pp woven bag with PE inner bag, Neutral English shiping marks; 500kg/1000kg Jumbo bag with inner bag, Neutral English shiping marks.		
Capacity	27tons/20GP		



**DAP Diammonium - MAP Monoammonium**



**MKP - Monopotassium Phosphate**



ITEMS	DAP 18-46-0	MAP 12-61-0
Chemical Formula	(NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub>	(NH <sub>4</sub> )H <sub>2</sub> PO <sub>4</sub>
HS Code	31053000	3105400000
Total Nitrogen (N)	≥18%	≥12%
Phosphate (P205)	≥46%	≥61%
Soluble P205	≥41%	≥58%
Moisture	≤2.0%	≤2.0%
PH Value	7.8-8.2	7.8-8.2
Appearance	Brown or Yellow Granula	White or light-colored powder
Particle Size	2-4mm ≥90%	Powder 0-1mm≥90%; Granules 1-5mm≥90%
Packing	25kg, 50kg PP woven bag with PE inner bag, Neutral English shiping marks; 1000kg Jumbo bag with inner bag, Neutral English shiping marks.	
Capacity	25tons/20GP	

ITEMS	MKP 0-52-34
Chemical Formula	KH <sub>2</sub> PO <sub>4</sub>
HS Code	28352400
Phosphate (P205)	≥51.5%
Potassium (K20)	≥33.5%
Insoluble in Water	≤0.2%
Moisture	≤0.2%
Plumbum (Pb)	≤0.005%
Chloride (Cl)	≤0.2%
PH Value	4.3-4.7
Appearance	White Crystal Powder
Packing	25kg / 50kg PP woven bag with PE inner bag, 500kg /1000kg Jumbo bag with inner bag, Neutral English shiping marks.
Capacity	25tons/20GP



## Magnesium Sulfate



PROPERTY	Anhydrous Magnesium Sulfate	Magnesium Sulfate Monohydrate	Magnesium Sulfate Heptahydrate
Chemical Formula	MgSO <sub>4</sub>	MgSO <sub>4</sub> ·H <sub>2</sub> O	MgSO <sub>4</sub> ·7H <sub>2</sub> O
CAS Number	7487-88-9	14168-73-1	10034-99-8
Molecular Weight	120.36 g/mol	138.38 g/mol	246.47 g/mol
Appearance	White crystalline powder	White powder	Colorless or white crystalline solid
Density	2.66 g/cm <sup>3</sup>	2.445 g/cm <sup>3</sup>	1.68 g/cm <sup>3</sup>
Melting Point	Decomposes at 1,124°C	Decomposes at 200°C	Decomposes at 150°C
Solubility in Water	26.9 g/100 mL (0°C); 35.1 g/100 mL (20°C); 50.2 g/100 mL (100°C)	Soluble	113 g/100 mL (20°C)
Solubility in Other Solvents	Slightly soluble in alcohol, glycerol; insoluble in acetone	Slightly soluble in alcohol	Slightly soluble in alcohol; insoluble in acetone
Common Uses	Drying agent in organic synthesis, fertilizer, brewing salt	Fertilizer, animal feed supplement	Bath salts (Epsom salt), therapeutic uses, agriculture



## Other Fertilizer



Magnesium Nitrate

Potassium Nitrate

Superphosphate



Calcium Nitrate

Zinc Sulphate

SSP / TSP Ca(H<sub>2</sub>PO<sub>4</sub>)<sub>2</sub>·H<sub>2</sub>O

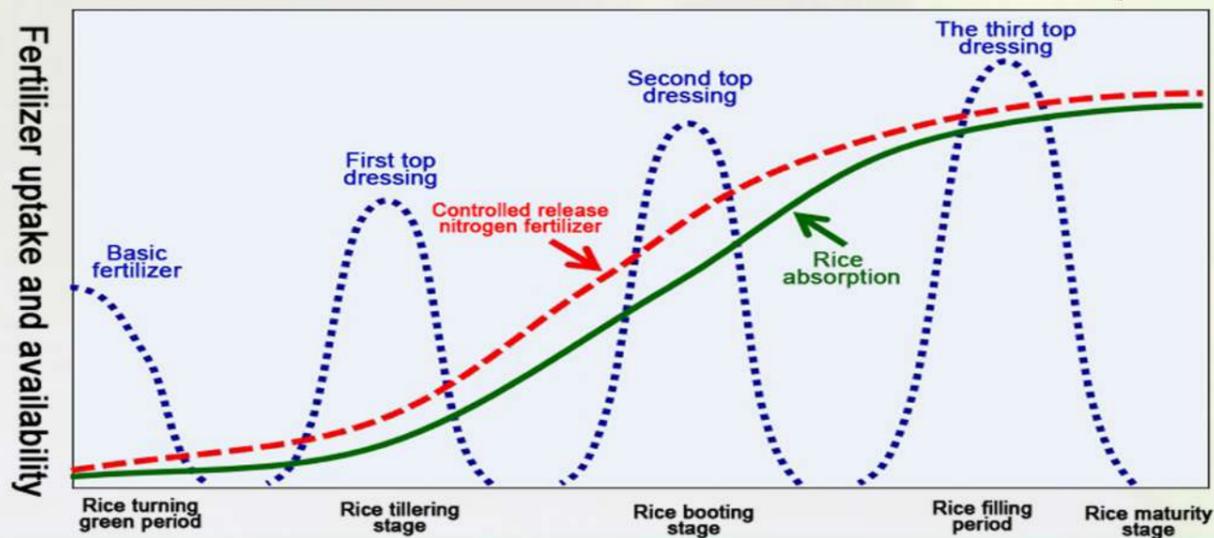


## Rice-Specific Fertilizer



ITEMS	NPK 27-8-10+TE	NPK 26-10-10+TE	NPK 22-22-12+TE
Raw Material	Combining the benefits of blue-coated controlled-release fertilizer and Active humic acid compound fertilizer.		
Total Nitrogen (N)	≥27%	≥26%	≥22%
Active Humic Acid	≥3%	≥3%	≥3%
Trace Elements	Zn≥0.0% B≥0.2% SI≥0.1 Ca Mg etc.		
Packing	25kg, 50kg PP woven bag with PE inner bag, Neutral English shipping marks; 500kg / 1000kg Jumbo bag with inner bag, Neutral English shipping marks.		

One-time fertilization, No topdressing required, providing balanced and sufficient nutrients without depletion.



**In the seedling stage:** active humic acid promotes strong root development with steady growth.

**In the mid-growth stage:** sufficient nutrient supply, increased tillering, sturdy stems, and vigorous growth.

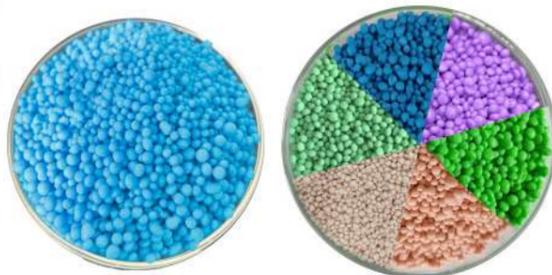
**In the later stages:** consistent nutrient supply, delayed senescence, full grains, more panicles, and resistance to lodging.

### Additional Knowledge

**Blue-coated controlled-release fertilizer Experiment**



## Corn-Specific Fertilizer



### Common Fertilizer Dosage

ITEMS	Nitrogen	Phosphorus	Potassium	Trace elements
<b>Sowing and Seedling Stage</b> (0-20 days)	Urea 120 kg/ha	DAP 120 kg/ha	/	Zn 5-10 kg/ha
<b>Vegetative Stage</b> (20-40 days)	Urea 150-225 kg/ha	DAP 150-225 kg/ha	KCl / K <sub>2</sub> SO <sub>4</sub> 75 kg/ha	Spray 0.1%-0.2% zinc sulfate solution
<b>Tasseling and Flowering Stage</b> (40-70 days)	Urea 225-300 kg/ha	DAP 50 kg/ha	KCl / K <sub>2</sub> SO <sub>4</sub> 120-150 kg/ha	Boron Fertilizer 2-5 kg/ha
<b>Grain Filling Stage</b> (70-100 days)	Urea 75-150 kg/ha	DAP /	KCl / K <sub>2</sub> SO <sub>4</sub> 75-120 kg/ha	MKP Spray 0.3% MKP
<b>Maturity Stage</b> (After 100 days)	/	/	/	/

### NPK Fertilizer Dosage

ITEMS	NPK 16-16-8	NPK 26-10-12+TE	NPK 12-12-17+TE
<b>Sowing and Seedling Stage</b> (0-20 days)	225-300 kg/ha	/	/
<b>Vegetative Stage</b> (20-40 days)	/	300-450 kg/ha (TE contains elements such as Zn and B)	/
<b>Tasseling and Flowering Stage</b> (40-70 days)	/	300 kg/ha (TE contains elements such as Zn + B + S + Mg)	/
<b>Grain Filling Stage</b> (70-100 days)	/	/	150-225 kg/ha (TE contains elements such as Zn + B + S + Mg)



Why  
Choose  
Corn-  
Specific  
Fertilizer?



Seedling  
stage  
stable

Late  
stage  
stable

Stable

Mid  
stage  
stable

In the seedling stage: active humic acid promotes strong root development with steady growth.



In the mid-growth stage: sufficient nutrient supply, increased tillering, sturdy stems, and vigorous growth.



In the later stages: consistent nutrient supply, delayed senescence, full grains, more panicles, and resistance to lodging.





## Specialized Fertilizers



Fertilizer for Tobacco



Fertilizer for Coffee



Fertilizer for Cacao



Fertilizer for Durian



Fertilizer for Mango



Fertilizer for Soybean



Fertilizer for Wheat



Fertilizer for Corn



Fertilizer for Rice



Fertilizer for Oil Palm



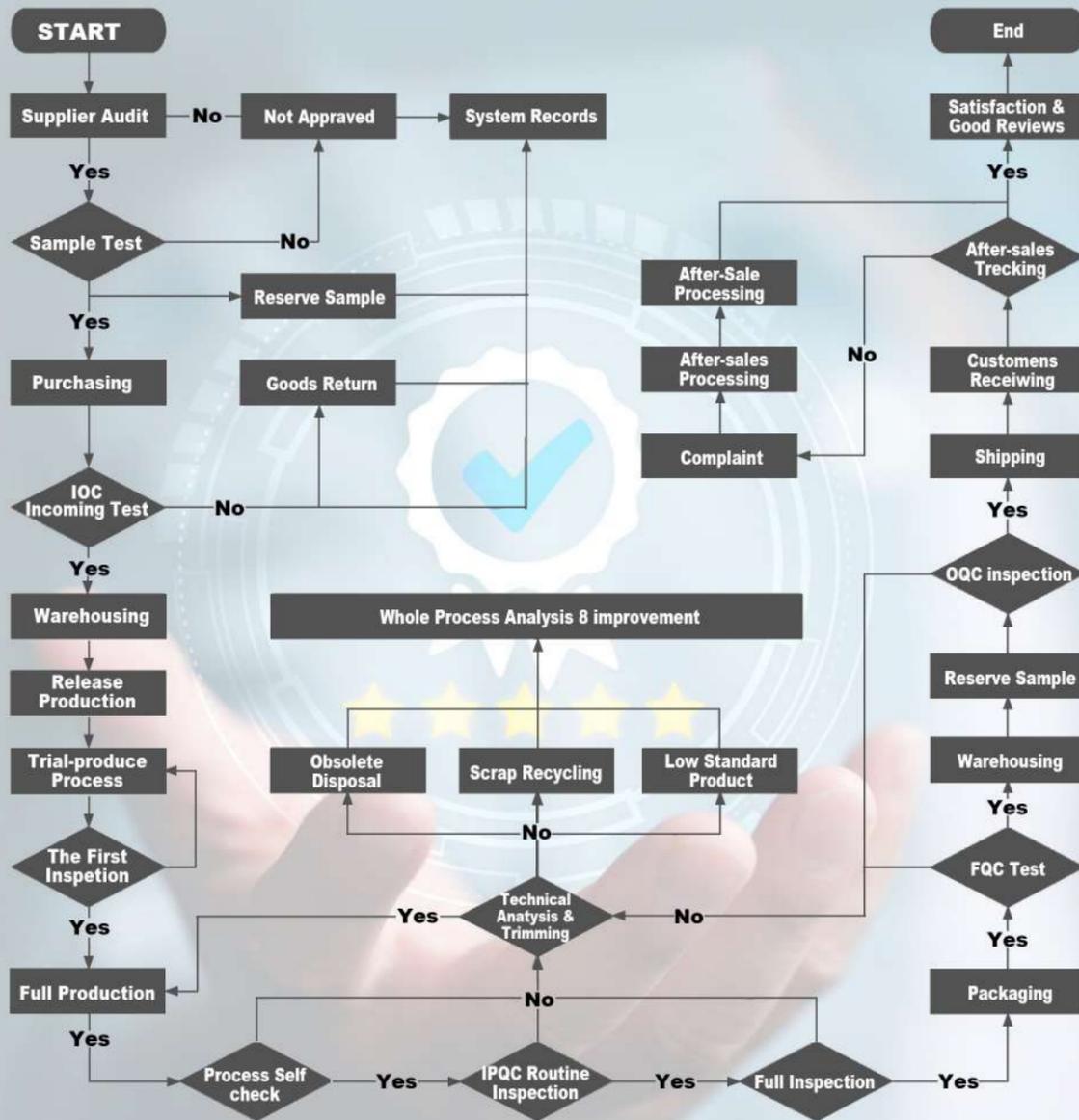
Fertilizer for Coconut



Leafy Vegetable Fertilizer



# QUALITY CONTROL SYSTEM



**IQC**  
Incoming Quality Control  
Incoming Sample inspection;  
Vendor Survey;  
Incoming inspection;  
Material reliability test;  
Quality defect handling & improvement tracing;  
Vendor control & assistance;  
Statistical quality & analysis;  
Quality record filling;  
Inspection of vendor's materials.

**IPQC**  
Incoming Quality Control  
Staff's Handling Procedures.  
Machinery Security Check.  
Material Placement.  
Process Handling Check  
5S Environment Control.  
Confirm BOM & first article audit  
Line audit & defect handling;  
Semi - finish sample inspection ;  
Statistical quality & analysis;  
Quality record filling

**FQC**  
Incoming Quality Control  
OBA(Open Box Audit) inspection of finish goods;  
Deviation handling offinise goods;  
OQC (Outgoing Quality Control);  
Statistical quality & analysis;  
Quality record filling;  
Reserved sample

**OQC**  
Incoming Quality Control  
Product Appearance.  
Functional testing.  
Packing List confirmation.  
Packaging & labeling Check.  
Reinforced wrapping Check  
Inspection quantity

## Risso - Your Reliable Partner

Risso (Taian RissoChemical Fertilizer Co., Ltd., ) recruits partners from all over the world, adheres to mutual benefit and win-win, expands practical cooperation, cooperates, supports and trusts each other, and achieves common development. We sincerely look forward to your joining!

## Partners We Cooperate With

<p><b>Fertilizer Brand &amp; Importers</b> Trust our premium, globally-recognized fertilizers for consistent quality and timely delivery.</p>	<p><b>Fertilizer Distributors &amp; Wholesalers</b> Partner with us for unbeatable bulk pricing, product variety, and market edge.</p>	<p><b>Large-Scale Farmers</b> Optimize yields with our scientifically-formulated, tailored fertilizer solutions for expansive farms.</p>	<p><b>Agricultural Cooperatives</b> Optimize yields with our scientifically-formulated, tailored fertilizer solutions for expansive farms.</p>
<p><b>Landscaping Companies</b> Elevate every project's beauty and health with our specialized, transformative fertilizer blends.</p>	<p><b>Nurseries &amp; Garden Centers</b> Supercharge plant growth and sales with our top-tier, growth-enhancing fertilizers.</p>	<p><b>Golf Courses &amp; Sports Turf Managers</b> Achieve consistently lush, championship-worthy greens using our elite turf formulas.</p>	<p><b>Agri-Supply Store</b> Reliably stock the best; our renowned fertilizers guarantee customer satisfaction and brand loyalty.</p>

## Partner Benefits

- **Brand Advantage:** One of China's largest and fastest-growing fertilizer manufacturers.
- **Competitive Pricing:** Best prices with regional protections.
- **Expert Support:** Strong management, efficient production, and robust assessments.
- **Comprehensive Training:** In-depth training on production, application, and sales.
- **Centralized Procurement:** Large-scale purchasing and efficient logistics.
- **Innovative R&D:** Advanced product development and safety standards.
- **Reliable Service:** 24/7 support, quick response, and ongoing product tracking.
- **Strong Partnerships:** Structured cooperation with professional support.

**Risso Fertilizer: Partnering Globally to Empower 2 Billion Farmers and Achieve Harvest Miracles!**

**YOUR TRUSTED PARTNER IN ADVANCED FERTILIZER SOLUTIONS**

**DRIVING SUSTAINABLE GROWTH.**



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