



## Changsha XianShanYuan Agriculture & Technology Co., Ltd.

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### Potassium Fulvate



Potassium Fulvate is one of the major components of humic substances. It is obtained by alkaline extraction of lignite or brown coal or leonardite and is used commercially as a soil conditioner.

Chemically, potassium fulvate is a super-molecular heterogeneous aromatic hydroxy carboxylic acid composed by various functional groups, taking on effects of sorption, complexation, chelation, flocculation, which dissolves loads of hydrophobic matters.

### Function & Benefits:

- Enhancing nutrient uptake by combining nutrients and humic aid as well as keep a well-balanced nutrition.
- Improving the structure of soil, increase the buffering powder of soil, optimize N. P. K absorption by plants.
- Increasing capacities of water holding and cation exchange
- Reducing nitrate leaking into the groundwater and protect the underground water
- Enhancing the resilience of crops, such as cold, drought, pest, disease and toppling resistance
- Stabilizing nitrogen and improve nitrogen efficiency (as an additive with urea)
- Promoting healthier, stronger plants and beautify appearance
- Enhancing soil ability of anti-hard water
- Detoxifying pesticide residues on the edible seed or fruits

### Applications:

1. Used as multi-functional compound fertilizer, combined with Nitrogen and Phosphorus, Mainly used as basal fertilizer, top dressing, seed fertilizer and foliar fertilizer
2. Foliar spray: 5-8kgs per ha/time, 2-3 times during seeding and growth stage

### Specifications

ITEM	STANDARD			
	I	II	III	IV
Humic acid (dry basis)	50.0% min	50.0% min	60.0% min	70.0% min
Fulvic acid (dry basis)	15.0% max	30.0% max	15.0% max	15.0% max
Moisture	15.0% max	15.0% max	15.0% max	15.0% max
Solubility	95.0.0% min	100.0% min	95.0.0% min	100.0% min
K <sub>2</sub> O	8.0% min	10.0% min	12.0% min	10.0% min
PH Value	9.0-11.0	9.0-11.0	9.0-11.0	9.0-11.0
Appearance	Powder/Flake			
Sieve Residue (80mesh)	95.0% min			
Sieve Residue (1-3mm)	95.0% min			
Packing	25 or 50kg/PE inner or kraft paper or upon request			