

Potassium fulvate Technical Data Sheet

Product Description

Potassium fulvate is [fulvic acid](#) potassium salt, has higher fulvic acid content thus has good water solubility and good ability to counter flocculation, can be used as foliar spray and drip irrigation, also could be mixed with other kind of fertilizer and pesticide.

Main Specification

Appearance	Black Powder	Black Powder	Black Flake
Product code	SHA-KFA-1-P	SHA-KFA-2-P	SHA-KFA-2-F
Water-solubility	100%	100%	100%
Potassium(K ₂ O dry basis)	12.0% min	12.0% min	12.0% min
Moisture	15.0% max	15.0% max	15.0% max
Humic Acid(dry basis)	50.0% min	60.0% min	60.0% min
Fulvic Acid(dry basis)	20% min	10% min	10% min
pH	9.0-10.0	9.0-10.0	9.0-10.0
Mesh	60	600	600
Partical size	/	2-4mm	2-4mm

Main Function

1) Greatly increase the soil fertility, especially mixed with Urea, DAP, MAP, MKP. With faster and obvious effect.

2) Increase the organic matter of soil and improve soil structure, accordingly largely promote the buffering power of soil.

There are two kinds of soil, sandy and heavy. In sandy soil nutrients are easy to lose, humic acid could help to stabilize these nutrients and convert them into plants adoptable form, in heavy soil humic acid can increase the capacity of colloid thus preventing soil surface cracking. Humic acid can help to create crumbly form to increase water holding capacity and its aeration. Humic acid could chelate the heavy metal thus avoid them absorbed by plants.

3) Regulate PH of soil and increase soil fertility.

The optimum pH range for most plants is between 5.5 and 7.0, Humic acid has direct function to balance the pH of soil, to make soil pH suitable for plants growth.

Humic acid could largely stabilize nitrogen storage and slow release, P is released from Al³⁺ in soil, also other microelement is in the form of easy-available by plants, meanwhile the beneficial fungi is active to produce different kind enzymes. to help to create a crumbly structure of soil to increase macro elements and micro elements binding capacity and water holding capacity, thus increase soil fertility.

4) Create good living environment for microbial mass .

Humic acid could directly improve soil structure thus to create good environment for microbial mass living environment, thus these microbial mass production will help to improve soil structure.

5) Promote the development of chlorophyll, sugars and amino acids in plants and aid in photosynthesis.

6) Promote seed germination in short time, Greatly increase harvest and fruits quality.

Humic acid maximize macro and micro elements absorption like nitrogen, the slow release. Phosphate will be greatly released from Fe³⁺ and Al³⁺ from soil. As to micro elements humic acid will chelate them into plant adoptable form and then optimize their absorption, also improve soil structure will nourish beneficial micro fungus which will also help soil to increase soil fertility and water holding capacity, thus will greatly increase harvest. Enhanced cell assimilation as well as photosynthesis increase the plant's sugar and vitamin content, thus the quality of their seeds will be largely increased.

7) Greatly increase plants capability to counter stress and disease.

Humic acid can mobilize K absorption to regulate the stomata open and close on the leaves also promote metabolism, thus increase the plants' ability under stressed conditions.

Uses

Base fertilizer: 5-10kgs/ ha, suggested mix with N, P fertilizers. Mixed with Nitrogen fertilizer: 5% of total blend ie. 1kgs of potassium fulvate per 100kgs of Urea. Also it depends on the soil condit

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