

Potassium Humate Technical Data Sheet

Product Description

Potassium humate is [humic acid](#) potassium salt, soluble in water. With good effect to stabilize and slow release nitrogen, liberate phosphorous in soil, can improve soil structure, increase soil fertility and increase harvest.

Main Specification



| Appearance | Black Crystal/Powder | Black Powder |
|---------------------------------------|----------------------|--------------|
| Product code | SHA-KHA-2 | SHA-KHA-3 |
| Water-solubility | 95% | 90% |
| Potassium(K ₂ O dry basis) | 10.0% min | 10.0% min |
| Moisture | 15.0% min | 15.0% min |
| Humic Acid(dry basis) | 60.0% min | 50.0% min |
| Fulvic Acid(dry basis) | 1% min | 1% min |
| PH | 9.0-10.0 | 9.0-10.0 |
| Sieve residue (0.5mm) | 5.0% max | 5.0% max |
| Partical size | 2-5mm | 2-5mm |

Higher Grade Potassium humate: [Super potassium humate](#)

Main Function

- 1).** Greatly increase the soil fertility, especial 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, but humic acid can help to stabilize these nutrients and convert them into a plant-adoptable form. In heavy soil, humic acid can increase the capacity of colloids, thus preventing soil surface cracking. Humic acid can help to create a crumbly structure to increase water holding capacity and soil aeration. Humic acid can also chelate heavy metals, thus preventing them from being 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 a direct function to balance the pH of soil, to make soil pH suitable for plant growth.

Humic acid can largely stabilize nitrogen storage and slow release. P is released from Al³⁺ in soil, and other microelements are in the form of easily available compounds for plants. Meanwhile, beneficial fungi are active to produce different kinds of enzymes to help create a crumbly soil structure to increase macro and micro elements binding capacity and water holding capacity, thus increasing soil fertility.

4). Create a good living environment for microbial mass.

Humic acid in **Potassium humate** can directly improve soil structure, thus creating a good environment for microbial mass living environment. This 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 fruit quality.

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

7) Greatly increase plants' capability countering 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. 5kgs of potassium humate per 100kgs of Urea. Also it depends on the soil condition.

Soil irrigation: 5-8kgs/ha/time

Caution: Before transferring to drip irrigation tank we suggest dissolve this **humate** in a small tank and filtering .

Package

- 1) Woven bags with poly bags inside 25kgs net weight,
- 2) Could also provide according to customer's requirement.

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