

## Nitro Humic Acid Technical Data Sheet

### Product Description

**Nitro humic acid** is not soluble in water, but soluble in alkaline media. With stronger effect to regulate PH and improve soil structure naturally work as soil conditioner.

### Main Specification

Appearance	Black Powder	Black Granule
Product code	SHA-NHA-P	SHA-NHA-G
N	2.0%	2.0%
Mesh	60	/
CEC	250-350meq/100g	250-350meq/100g
Humic Acid(dry basis)	50.0% min	50.0% min
Size	/	2-4mm

### Main Function

#### **1) Stronger effect to neutralize alkaline soil condition.**

Increase buffering power and fertility of soil by improving the structure.

In sandy soil, **humic acid** will help to increase fertility of soil through its cation exchange capacity to retain water and beneficial micro nutrient. In heavy and compact soil, Humic acid will work with fungi to construct a crumb structure root to absorb water oxygen and nutrient also improve root penetration.

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

There two kinds of soil, sandy and heavy. In sandy soil nutrients are easy to loose, 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 crumble 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 Al<sup>3+</sup> 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 Fe<sup>3+</sup> and Al<sup>3+</sup> 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 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:

For field crop, 50-100kgs/ha per crop season.

For fruit trees, 1-2kgs per plant.

For vegetables, 1-2kg/m<sup>2</sup>.

Mix additive: 30-60kgs per ton of composite.(suggested mix use with Urea and MAP DAP)

### **Package**

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

### **Contact Details**

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