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TECHNICAL SHEET

Humic Acid

SPECIFICATION

Model	GTHA-1501	GTHA-1502
Appearance	Powder&Ball	Powder&Ball
Size	80mesh &2-4mm	80mesh &2-4mm
Humic Acid	40%	50%-55%
Organic Matter	> 90%-100%	> 80%-100%
Water Solubility	Insoluble	Insoluble
Moisture	25%	25%

Humic Acid is formed by microbial degradation of the dead biological substances for thousand of years. Its specific properties and structure depends on a given sample source fromwater orsoil to extract thespecific conditions. However, while the humicacidisdifferent sources, the performance is very silimar .Humus in soils and sediments can be divided into three main parts:humic acid**Humic acid, HA)**, fulvic acid **(fulvic acid,FA)** and humin**(humin,HM).** HA issolubleandcanbeextractedoutbyalkali solutions, itisnotsoluble in water and acid itself, FA is soluble in alkali, water and acid, HM is not soluble in alkali,water&acids.

BENEFITS

Effect to soil

Largely promote the buffering powder and fertility of soil by improving the structure and increasing its organic matter insandy soil, humicacid helps to improve fertility ofsoil through its exchange ability to retain water and beneficial micro nutrients..In heavy and compact soil, humic acid works with fungi to constrcuct a crumb structure root to absorb water oxygen and nutrients, improve root penetrations

Neutralize both acidic and alkaline to make it into a optimized soil environment with PH 5.5-7.0. Inalkalinesoil, beneficialionandothertraceelementscannotbeabsorbedbyplants, humic acid can buffer PH and convert the nutrients and trace elements into absorbanle form and promote their uptaking by the roots in acidic soil, it largely reduces the toxic substances such as the ally aluminum and heavy metals,which will be bonded firmly and

immobilized, thustheirtoxicityisreducedandphosphateisbondedbyaluminumisreleased . In saline soil, salts are spilt up by the high cation exchange capability,cation(eg.Ca.Mg) are bondedandchelated. Fosterproperenvironmentforsoilmicrobialmass, soilresearchshows that a place with higher content of humic acid will appear more beneficial microbial mass. Thus these microbial will help in increase soil conditions.

Effect to seeds and roots system

Humic acid works as natural seed permination and root stimulant. Promoting germination of seeds and growth of root. It stimulates the membrance of seeds to form a strong roots.

Effect to plants

Largely optimized the absorption of beneficial ion by plants thus increase plants growth accoddingly increase the yield and fruits quality.Based on improved structure by humic acid Nitrogen is larged stored and repleased in a slower way. P is released from AL+ in soil, also makes other microelement in the formof easy-available by plants, meanwhile the beneficial fungi is active to produce different kind of enzymes, with the above joint effort, the yield will increased 30%. Enhanced cellassimilation aswellas photosynthesisincrease the plants sugar and vitamin content.

Enhance plants' ability to counter stressed conditions. Humic acid can mobilize Potassium absorption to regulate the stomata open and close on the leaves also promote matabolism to increase the plants ability under stressed conditions.

Effect to yield

Help to the growth of chlorophyll to promote phtosynthesis, which helps to improve the accumulation of sugar ,fat and amino acid in plants to promote roots and tubers, increase production, improve quality.Humic acid can enhance cell growth and help promote photosynthesis, therby increasing the vitamin content of sugar and fruit crops, moreover, humic acid can chelate heavy matals in soil to avoid being absorbed by crops or plants, yield and quality will be greatly improved.

Packing:

25kg/bag ,40kg/bag or super ton bags