

1. Production Description

Super Sodium Humate is refined sodium humate with 70%min humic acid and 100% water solubility on dry basis. Have shiny flakes, shiny crystal and powder types. Can be used for feed additives and ceramics industry.



2. Main Specification

Appearance	Black Shiny Flake/Crystal/Powder
Product code	JFHA-NaHA-1
Water solubility	100%
Humic Acid(dry basis)	70.0% min
Moisture	15.0% max
Particle size	1-2mm/2-4mm
Fineness	80-100mesh
pH	9-10

3. Main Function

(1). Work as feed additive

- Sodium humate forms a kind of protecting film on the mucosa cells of the intestine.
- This protection reduces the absorption of toxic substances, as they may occur as a follow up from infectious processes or from residues from animal feed in the intestinal tract.
- It also has the distinct property to absorb toxins from proteins, toxic residues and various heavy metals.

- Stabilize of intestinal flora. Fix microorganisms, toxins and harmful substances in animal feed. Promote growth and stimulate the immune system.

(2). Aquaculture uses

- Improve the carbon source of water: The element composition of humic acid is 50% -60% carbon, hydrogen 4% -6%, the rest of the elements are mostly oxygen. So sodium humate can be used to supplement the carbon source of water.
- Purification of water quality: The active groups of sodium humate molecules can chelate with calcium and magnesium ions in water, effectively prevent the formation of fouling core, thus preventing the incrustation, to achieve the purpose of anti-scaling.
- Physical shade: After applying sodium humate, the water become soy sauce color, can block part of the sunshine to reach the bottom, which can play a role in the prevention of moss and green algae.
- Growing grass :To be the role of growing plants is one of the most basic application of sodium humate. Can promote the growth and development of aquatic plants, increase plant physiological metabolism and enzyme in vivo activity, improve aquatic plant quality.
- Chelating heavy metal ions: The heavy metal ions adsorption of Sodium humate is not only cation exchange, but also their formation of chelating relationship, so it can adsorb many metal ions.
- Improve the substrate, detoxification deodorant: mainly use sodium humate balls / granules and crystals. Firstly, the porous and cellular structure of sodium humate can loose soil, change the permeability of the substrate; Secondly, sodium humate Can absorb the NH_3 and H_2S in the bottom environment, so as to remove the stink of sediment, thereby reduce the pollution of the environment.

(3). Industry uses

- Sodium humate can be used for removing toxic metals and their ions from wastewater.
- Sodium humate can be applied as an adjunct in dissolved air flotation cells to assist in the removal of trace amounts of grease, oil, liquid organics and suspended matter.

- They should be considered as a special coagulant aid to be used in conjunction with water soluble polymeric flocculants for removal of soluble organics.
- They can also be used as potential fluid loss additives in certain types of organic liquids to prevent seepage from lagoons or pit containment areas.

4. Usage

	Fertigation and Foliar
Additive	Feed ingredients, drinking water, mineral supplements
Additive amount(Super Sodium humate shiny flake / powder)	1‰-2‰per MT fodder
Drinking water(Sodium humate shiny flake, sodium humate crystal)	1 gram per litre of water
Unhealthy Animals(Sodium humate shiny flake, sodium humate crystal)	Initial support: 20 gram per 100kg of body weight Subsequent: 5gram per 100kg of body weight

5. Package

- 25kg woven bags with inner liner.
- Color printing PP bags with inner liner or PE bags.
- 1MT,1.1MT jumbo bags with discharge hole.
- According to customer's requirement.

6. Advantage

- Include with dairy or beef cattle, pig, poultry, sheep, horse, shrimp and fish feed, supplements or water.
- Improves feed and supplement digestion.
- Faster animal weight gains.
- Increase dairy feed efficiency and reduce mastitis, animal stress and healing time.
- Odour reduction in animal waste.
- support general health and vitality of animals, birds, fish and shrimp.