

NBT








humic acid



SOIL

reasons of soil degradation:

-  heavy irrigation contributes to salinization of the soil;
-  loss of organic matter;
-  excessive use of pesticides and agrochemicals;
-  irrational use of sown areas;
-  random cattle grazing



The HUMIC acids (humic and fulvic)

are essential to plants in three basic ways:

Humic acid enables plants to extract nutrients from the soil

Humic acid stimulates and increases root growth.

Fulvic acid helps plants overcome stress, enhances the bio-availability of important trace minerals and their uptake.



LEONARDITE

Humic and Fulvic acids are the final break-down constituents of the natural decay of plant and animal materials.

Humic matter is formed through the chemical and biological humification of plant and animal matter and through the biological activities of micro-organisms.

Humic acids are complex molecules that exist naturally in soils, peats, oceans and fresh waters. The one source of humic acids are the sedimentation layers referred to as **LEONARDITE**.

The decomposition of concentrated organic HUMIC AND FULVIC acids is a lengthy process taking millions of years in the natural environment.



QUALITY CHARACTERISTICS

Parameters, measure	Test units	Test results
pH		9.55±0,2
Humified organic matter	%	88.2±0,1
Organic matter (on dry matter)	%	67.1±0,1
Total humic extract	gr/litre	160±0.1
Humidity	%	95.6±0,01
Phosphorus (P2O5)	%	0.2±0.004
Potassium, K2O	%	1.1±0,01
Calcium CaO	%	0.14±0,01
Magnesium MgO	%	0,04±0,002
Sodium	%	0,005±0,00044
Zinc	%	0.002±0,00044
Copper	%	0.0016±0,00044
Manganese	%	0.00109±0,00044
Iron	%	0,0059±0,00044
Cadmium	%	<0.0001
Nickel	%	<0.0001
Mercury	%	<0.0001
Molybdenum	%	<0.0001
Cobalt	%	<0.0001
Chromium	%	<0.0001

LIQUID PREMIUM HUMIC

- 100% Organic fertilizer.
- Stimulates biological activity in soil.
- Increase yield up to 40%.
- Enhance nutrients uptake and increases the content of humus in soil.
- Reduce the toxicity of pesticide residue and prevents soil from contamination of heavy metallic ions as well as other harmful matters.
- Plant growth stimulant, promote root development and stimulates seed germination.
- Enhance the resilience of crops such as cold, drought, pest, disease and toppling resistance.
- Promotes healthier, stronger plants, enhance appearance and quality characteristics.
- Accelerates period of ripening up to 10 – 15 days.
- Accelerates plant cells division and promote growth.
- Can be mixed with all fertilizers.



HUMATE POTASSIUM PREMIUM HUMIC POWDER

Benefits of using

- 100% ecological friendly organic fertilizer.
- Soil Conditioner. Improve soil structure.
- Stimulates biological activity in soil.
- Enhance resistance to stress for soil.
- Plant growth stimulant.
- Promote root development and stimulates seed germination.
- Enhance nutrient uptake.
- Fertilizer efficiency promoter.
- Increase in yield up to 60%.
- Accelerates period of ripening up to 1-2 weeks.
- Enhance the resilience of crops such as cold, drought, pest, disease.
- Promotes healthier, stronger plants and enhance appearance.
- UV protection.
- Humate potassium can be mixed with all types of fertilizers and used for all crops.

CHARACTERISTICS

Installed by analysis

External appearance	Black Powder
Mass fraction of moisture, % no more	20,0
pH of 1% aqueous solution, pH	9,2
The mass fraction of Humic and Fulvic acids in recalculation on dry organic weight, % not less Including: Humic acid Fulvic acid	76-85 68-72 8-13
Mass fraction of phosphorus (P2O5) %	0,04
Mass fraction of nitrogen (N) %	0,25
Mass fraction of potassium (K2O) %	13,1
Mass fraction of calcium (CaO) %	1,91
Mass fraction of sulfur (SO3) %	2,12
Solubility %	96,8



HUMIGRAN NPK

- Stimulates the creation of a strong root system.
- Stimulates the production of root exudes by enriching the soil microbiota.
- Increases permeability of plant's cell membranes.
- Promotes assimilation of nitrogen, phosphorus and potassium, and prevents the formation of nitrates.
- Increases the efficiency of enzymes.
- Increases the plant's resistance to diseases, pests and adverse weather conditions.
- Increases the content of vitamins and minerals in plants.
- Stimulates plant growth.
- Humic acids contained in the fertilizer intensify the synthesis of nucleic acids.

QUALITY CHARACTERISTICS

Parameters, measure	Test units	Test results
Moisture	%	11,6
pH		6,7
Humic acids	%	30
Phosphorus (P2O5)	%	1,6
Nitrogen	%	3,32
Potassium, K2O	%	2,33
Fe, B, Zn, Cu, Mn, Cr, Mo, Co		



HUMIGRAN

- 100% Organic granulated fertilizer.
- Increase productivity up to 40% without extra use of fertilizers.
- Can be used for all types of plants.
- Restoration of soil fertility.
- Enhance nutrients uptake and increases the content of humus and macro- elements in soil.
- Reduce the toxicity of pesticide residue and prevents soil from contamination of heavy metallic ions as well as other harmful matters.
- Promotes healthier, stronger plants, enhance appearance and quality characteristics.
- Improve quality characteristics of crops and fruits.
- Prolonged effect of fertilizer.

Parameters, measure	Test units	Test results
pH		10-12
Humic acids	%	18-21
Phosphorus P2O5	%	3,7-5,2
Potassium K2O	%	19-23
Calcium CaO	%	9.4-10.9
Magnesium MgO	%	6.9-7.4
Sulphur SO3	%	5.2-6.7
Fe, B, Zn, Cu, Mn, Cr, Mo, Co		

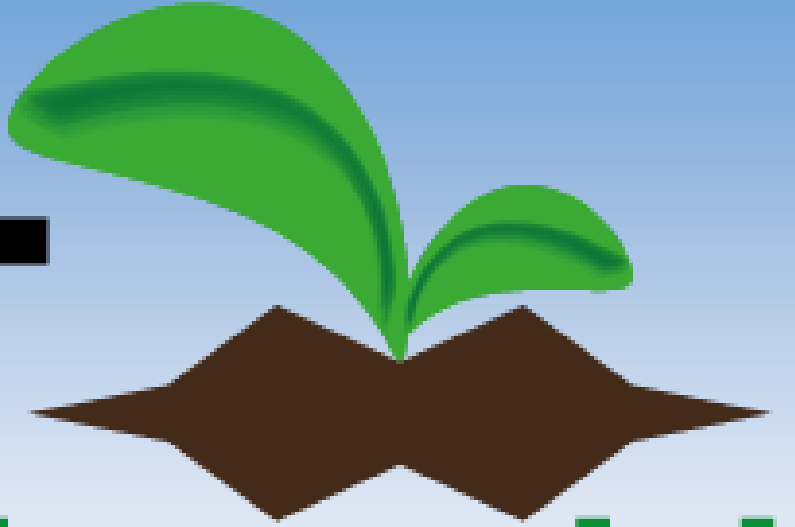


ADVANTAGES OF USING HUMATE POTASSIUM PREMIUM HUMIC IN SAND AND POLLUTED BY OIL PRODUCTION SOILS

- ✓ Reclamation of polluted and poor soils
Heavy metall, rationales, and oil production products soil
cleaning and detoxing
- ✓ Increase of humus content in sand soils
- ✓ Restoration of soil fertility and and improving soil
structure
- ✓ Increase ability of soil to keep moisture
- ✓ Makes colour of soil darker
Increase concentrations of organic acids and nutrients in
soil



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