

WATER SOLUBLE**DESCRIPTION**

POWHUMUS® WSG 85 is a concentrated humic acid substance and a 100% water soluble high quality plant growth stimulant and soil conditioner. It can be applied for agricultural and horticultural plants, fruit trees, ornamental plants, turf and cereals for soil and foliar application. Furthermore it is a permanent humic substance which cannot be easily decomposed by microorganisms of the soil. It can be used alone or mixed with most fertilizers.

ORIGIN

POWHUMUS® WSG 85 is obtained through alkaline extraction from German Leonardite (highly oxidized lignite). It arises at the chemical and biological humification of plant and organic matter, by the biological activity and geological processes. They provide a very high content of humic and fulvic acids and natural biologically active trace elements.

Organic Soil Conditioner

100% Water Soluble Granulated Potassium Salts of Humic Acids FOR SOIL AND FOLIAR APPLICATION

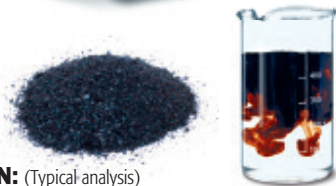
BENEFITS

POWHUMUS® WSG 85 is a growth stimulant and soil conditioner especially for sandy and clay soils. As a crystalline granule, it can be transported easily.

Moreover, it can be applied to all agricultural and horticultural plants. Furthermore it is able to enhance the performance of fertilizers and reduces input costs.

- Stimulates plant growth by an increased biomass production
- Increases yield and improves quality of plants
- Activates plant enzymes
- Improves the soil structure and the water holding capacity
- Increases and stimulates beneficial soil microorganisms

- Enhances the soil cation exchange capacity (CEC)
- Increases the effectiveness of fertilizers and reduces nutrient especially nitrate leaching
- Promotes root development
- Increases the permeability of cell membranes in the roots and increases nutrient uptake
- Acts as a natural chelator for microelements in alkaline soils and increases their availability for plants
- Decreases stress by drought and stress by the application of plant treatments
- Increases the germination of seeds and enhances development of radicles
- Reduces the residues of herbicides and toxic substances in the soils
- Delays the decomposition of ultraviolet unstable agents

**COMPOSITION:** (Typical analysis)

Potassium Humates	80-85%
Potassium (K ₂ O; dry matter)	10-12%
Org. (N)	1%
Dry matter	approx. 85-90%
Iron (Fe)	1%
Others	1.1%
Particle size of Insol. Cont.	<100 Microns
Solubility in water	100%
Bulk density	ca. 0.55 kg/L
CEC	400-600 meq/100g
pH-Value	9-10.5
Product type	Water Soluble Granules

DIRECTION FOR USE ***POWHUMUS® WSG 85**

CROP	OBJECTIVE	RECOMMENDED APPLICATION
In all crops	Soil conditioning, increase of soil fertility and fertilizer utilization	6-8 kg/ha divided into several doses (1-2 kg/ha)
Vegetables in green houses (tomatoes, bell peppers, eggplants, cucumbers, zucchini)	Soil conditioning, increase of soil fertility and fertilizer utilization	8-10 kg/ha divided into several doses (1-2 kg/ha) during the season
Horticultural trees (kiwi, citrus groves, banana, wine grapes stone fruit)	Soil conditioning, root growth stimulation, increase of soil fertility and fertilizer utilization	8-10 kg/ha divided into several doses (1-2 kg/ha) during the season
Open field vegetables	Soil conditioning, root growth stimulation, increase of soil fertility and fertilizer utilization	6-8 kg/ha divided into several doses (1-2 kg/ha) during the season and fertilizer application
Cereals (wheat, rye, barley, oat, maize, rice, etc.), potatoes, beans, peanuts	Soil conditioning, root growth stimulation, increase of soil fertility and fertilizer utilization	6-8 kg/ha divided into several doses (1-2 kg/ha) during the season and fertilizer application
Ornamental plants and forest nursery, landscaping, turf grass (in general)	Soil conditioning, root growth stimulation, increase of soil fertility and fertilizer utilization	8-10 kg/ha or 1 kg/m ³ during the preparation of substrates
Foliar application	Growth stimulant, increase of foliar fertilizer penetration	150-300 g/1000 L water every two weeks during the season
Seed treatment	Stimulation of seed germination and root growth	1 kg/100 kg Seeds
UV protection	Prevention of decomposition of ultraviolet unstable agents	0.1% (400 g in 400 L water/ha)

* This recommendation could be varied according to the soil characteristics and farm conditions

FORM OF DELIVERY

Bag
1/25 kg



Carton Box
1/10 kg



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