

BiesterSOL humic

*The water soluble fertilizer
with humic and fulvic acids*

Humic acids play an important role in plant growth. In combination with fulvic acids, which are a special form of humic acids with a lower molecular weight and a higher oxygen content, they improve the structure of the soil, provide a favourable environment for microbial activity, significantly stimulate root growth, increase yield and fruits quality.

The high quality water soluble NPK fertilizer **BiesterSOL** humic contains a very high percentage of humic and fulvic acids. Made of only the best raw materials of European origin, it uses phosphorus (P) derived from mono-ammonical and mono-potassium phosphates as well as potassium derived from nitrate and is enriched with a special trace element mix containing boron, iron, manganese, copper or zinc to improve the physical-chemical characteristics. **BiesterSOL** humic is extremely pure and does not contain any harmful substances like chlorine or sodium.

Perfect combination for each stage of vegetation

BiesterSOL humic is available in two versions. "Alpha" with its high percentages of N and P is ideally suited for the early stages of vegetation, whereas "Omega" with a high share of K is perfectly suited for the final stages including fruit development and maturation.

Being 100% water soluble, **BiesterSOL** humic can be used in all kinds of irrigation systems: for drip irrigation and sprinkler systems, for soil grown crops and with hydroponic systems and in greenhouses as well as in open field cultivations. .

Easy handling and application

Thanks to the use of a unique drying facility during the production process, **BiesterSOL** humic contains almost no humidity. This assures that the product does not cake, has an extended shelf life and is always free-flowing. These characteristics increase the solubility and facilitate the dosing. **BiesterSOL** humic is packaged in high-quality aluminium bags with a special durability. The application of **BiesterSOL** humic is easy and time saving. The high product quality reduces the risk of leaching as well as of any water eutrophication.



**Available in 25 kg and
10 kg bags and in 2 kg buckets**

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Composition

	N total	nitr.	amm.	ureic	P P₂O₅	K K₂O
Alpha	11 %	2 %	9 %	–	49 %	6 %
Omega	9 %	3 %	6 %	–	15 %	33 %

Humic extracts

	Humic acids	Fulvic acids
all types	24 %	6 %

Trace elements (in percent)

	Mo	Fe	B	Mn	Zn	Cu
	Molybdenum water soluble	Iron chelated EDDHA	Boron water soluble	Manganese chelated EDTA	Zinc chelated EDTA	Copper chelated EDTA
all types	0.10 %	0.10 %	0.04 %	0.01 %	0.10 %	0.01 %

Chemical and physical characteristics

	pH value	Solubility	Conductivity
	in a solution of 0,1 %	max at 24 °C (in gr./liter H ₂ O)	at 24 °C in mS/cm, solution of 0,1 %
all types	4.8	350	0.9

Dosage	kg/ha in fertirrigation
Horticulture in open field	30-40
Horticulture in greenhouse	20-30
Fruit farming	30-40
Vine	30-40

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