

tangelAGRO

MACRONUTRIENTS



HEALTHY CROPS

Potassium fertilizer
with Humic extracts

RENK



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RENK

RENK
SOLID

POTASSIUM FERTILIZER WITH HUMIC AND FULVIC ACIDS

RENK

HUMIC AND FULVIC ACIDS IN THE ABSORPTION, TRANSPORT, AND DISTRIBUTION OF POTASSIUM IN PLANTS:

RENK belongs to a range of potassium fertilizers designed by the scientific-technical team of TANGEL AGRO, incorporating humic and fulvic acids in its composition.



POTASSIUM ABSORPTION in the roots:

- Activate membrane transporters
- Chelating and mobilizing effect (Mobilizes K^+ from the soil)



POTASSIUM DISTRIBUTION IN TISSUES

- Increase enzymatic activity
- Optimize photosynthesis and metabolism
- Improve transport through the phloem



POTASSIUM TRANSPORT IN THE PLANT

- Facilitate K^+ conduction in the sap
- Regulate ionic balance
- Prevent sodium (Na^+) toxicity in saline soils
- Mobilization of potassium to leaves, fruits, and active roots

SUMMARY

- **Humic acids:** Improve retention and availability of K^+ in the soil.
- **Fulvic acids:** Mobilize and facilitate the transport/distribution of K^+ in the
- **Both:** Increase efficiency in plant metabolism and enhance productivity.



RENK

CHARACTERISTICS

In **RENK**, the low-molecular-weight organic acids are highly effective at penetrating cellular membranes. They carry positive ions, like potassium, into the cell, which results in a higher concentration of potassium within the cell.

RENK, is an optimal formulation of K to achieve an adequate supply of this important macronutrient. Renk maintains the optimum level of K at times of high demand by the plant.

Potassium complexed with humic acids in **RENK**, enhances potassium fertilization while augmenting the absorption of other essential nutrients.

ACTIONS

- ACCELERATES FRUCTIFICATION PROCESSES.
- HOMOGENEOUS MATURATION.
- INCREASES THE NUTRITIVE VALUE, SUGARS CONTENT AND FRUIT OILS.
- ENHANCE YIELD AND QUALITY ON CROPS.
- STIMULATES THE MATURATION, SIZING AND QUALITY OF THE FRUIT.

- HIGH CONCENTRATION OF K WITH AMINO ACIDS.
- SYSTEMIC POTASSIUM TRANSPORT IN THE PLANT.
- FASTER UPTAKE AND TRANSLOCATION OF POTASSIUM.
- USES TO PREVENT OR CORRECT POTASSIUM DEFICIENCIES IN ALL CROPS.

COMPOSITION

	%w/v
Potassium (K ₂ O)	43,0
Total Humic extract	9,0
Humic Acids	7,0
Fulvic Acids	2,0
Density: 1,5 g/cc	
Free of chloride	

FOLIAR APPLICATION

FERTIRRIGATION 15-40 l/ha
FOLIAR 300-600 cc/100l

Citrus	In the fruit set, fruit enlargement and before harvesting.
Cotton	2-4 applications along the crop cycle.
Fruit	In the fruit set, fruit enlargement and before harvesting.
Horticultural	2-6 applications along the crop cycle.
Olive	In the fruit set, fruit enlargement and before harvesting.
Ornamental	2-4 applications along the crop cycle.
Strawberry	1-3 applications on flowering and fruit formation of tubers.
Sugar beet	Starting 2 months before harvest.
Tropical fruits	2-4 applications during the crop cycle.
Vine	In times of fruit enlargement, ripening and coloring.



RENK SOLID

CHARACTERISTICS

RENK SOLID is a highly concentrated fertilizer rich in fulvic acids and fast assimilable potassium. Fulvic acids are potent organic stimulants, demonstrating higher reactivity compared to humic acids due to their smaller molecular size, thereby acting more quickly to enhance plant development. Furthermore, they enhance cellular membrane permeability, thereby improving nutrient absorption.

In the soil, they act as natural chelating agents. They form fulvates with bound cations, transforming them into easily assimilable molecules that quickly enter the plant, optimizing the supply of fertilizers applied through irrigation. They enhance soil structure by increasing aeration and clay flocculation, promoting root growth.

ACTIONS

- ✓ **HIGHER SIZE FRUIT - BEST CONSISTENCY.**
- ✓ **ADVANCEMENT OF RIPENING.**
- ✓ **MORE INTENSE COLOR.**
- ✓ **GREATER QUALITY - HIGHER YIELD.**
- ✓ **INCREASES THE CONTENT OF SUGARS AND OTHER RESERVE SUBSTANCES.**

- **HIGH POTASSIUM CONCENTRATION**
- **HIGH SOLUBILITY**
- **SYSTEMIC UPTAKE**
- **PREVENTS OR CORRECTS POTASSIUM DEFICIENCIES IN ALL CROPS**

COMPOSITION

Potassium (K ₂ O)	30,0
Total Humic extract	30,0
Fulvic Acids	27,0
Humic Acids	3,0
Nitrogen (N)	2,0

%w/w

APPLICATION

Crops	Foliar	Dosage
VINEYARD:	2-4 applications separated by 10-15 days starting from the nouasion stage and during ripening.	3-4 Kg/ha Optimal concentration. 300g/hl-400g/hl Maximum concentration. 1000g/hl On young and fragile foliage maximum 500g/hl.
FRUIT TREES Stone fruits Pip fruits	2-3 applications separated by 15 days starting at the beginning of fruits growth and up to 2 weeks before harvest.	Fertirrigation
FIELD CROPS Beets, potatoes, taproots	3-5 interventions on sufficiently developed foliage.	Use 7-15 kg/ha per application (to be diluted to 10% maximum in the mother solution).
VEGETABLES Tomatoes, pepper, melon...	3-5 interventions on sufficiently developed foliage.	

Apply **RENK SOLID** during the active periods of highest nutrient demand, particularly during vegetative growth, fruit set, and fruit development.



RENK

RENK SOLID



HIDDEN LEVEL:

- Improves storage and shelf life
- Improves processing quality
- Improves nutritive value

EXTERNAL LEVEL:

- Improves appearance: size, shape, gloss and color.
- Improves feel: firmness, texture and peel thickness.
- Reduces defects: cracks, creases, marks and flaws.

INTERNAL LEVEL:

- Improves taste: sweetness, bitterness, sourness, saltiness and juice content.
- Improves texture: tenderness, firmness, crispness, crunchiness, chewiness and fibrousness.

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