

# FLUID FERTILIZERS

NP - NPK

- Stimulate crop growth and fruit enlargement
- Rapid action (inside the plants, both ascending and descending)
- Alternatives to MAP, MPK, urea phosphate and water-soluble products



**FOSFÌ**

... special fertilizers phosphites

**FOSFÌ ACID**

... special fertilizers phosphates

## FEATURES

**FOSFÌ** and **FOSFÌ ACID** are two fluid fertilizer families of high quality, suitable for root and foliar application. They satisfy nutritional requirements of different crops. The special features of **FOSFÌ** is due to the origin of  $P_2O_5$ , coming from phosphorous acid, salified with other cations (Potassium, Magnesium, Calcium, Copper, Zinc, etc.), while  $P_2O_5$ , present in **FOSFÌ ACID**, came from phosphoric acid. They are characterized by strong action to move inside plants, ascending and descending with consequent penetration rapidity inside vegetal tissues, so protecting plants and serving as nutrient, at the same time. The specific chemical formula of phosphite ion also increases the rapidity of absorption, leading to higher mobility inside plants.

**FOSFÌ** and **FOSFÌ ACID**, so carefully studied, stimulate plants to produce higher quantities of phytoalexins (natural substances having auto-defence function), increase the resistance to some plant diseases and physiological disorders, improve growth (vegetative and productive) and the sanitary general status. **FOSFÌ ACID** are the alternative to powder phosphate fertilizers and phosphites, they are fluid products of high solubility, characterized by the presence of the phosphate ion, that is very mobile in the plant and can be transferred in every direction, **leaving not residues**.



Tanks Kg 6 (4x6) • Tanlsd Kg 25  
Cister Kg 1200

## EFFECTS AND ADVANTAGES



### **FOSFÌ NP 20.10 + Fe EDTA + Micro - FOSFÌ ACID NP 20.10 + Fe EDTA + Micro**

Make the plant ready for the flowering and improve the translocation of nutrients, also when lymphatic flow is interrupted by pests.

They green up the vegetation, increase chlorophyll production and the photosynthetic activity. They increase the fruit size and weight, protein content in cereals, resulting in an increase of production and quality.

### **FOSFÌ NP 8.40 + 2 MgO + Micro**

Advisable to stimulate the seed germination, root growth and crop vegetative development; moreover, it promotes a rich and plentiful flowering. **FOSFÌ NP 8.40 + 2 MgO + Micro** thanks to its ability to move inside plants ascending and descending underlines on plant prompt nutritional activity and make crops more resistant to pests, it can be also employed for cleaning driplines.

### **FOSFÌ ZIN 3.40 + 7,0 Zn + (0,2 Mn) - FOSFÌ ACID 3.40 + 7,0 Zn + (0,2 Mn)**

Ideal for the application at post-seeding and post-transplant, to promote the overcoming of germination and rooting difficulties at the early stages. Zinc, moreover, Zinc is a catalytic element of the tryptophan synthesis, (amino acid precursor in the indole-3-acetic acid synthesis, the latter is an important auxin substance growth promoter of the plant) that stimulates root growth and vegetative-productive development. They can be used both for fertigation and foliar application, thanks to their systemic action – ascending and descending underline on plants prompt nutritional activity and make crops resistant to pests. **FOSFÌ ZIN** and **FOSFÌ ACID 3.40** can be employed also employed for cleaning driplines.

### **FOSFÌ NPK 3.24.24 + Fe EDTA + Micro**

Ideal for seed germination, root growth and crop vegetative development; moreover, it promotes a rich and plentiful flowering, determines an increase of sugar concentration, and improves markedly colour and flavour of horticultural and fruit crops.

### **FOSFÌ NPK 3.24.24 + Fe EDTA + Micro**

It can be applied both by fertigation and foliar application, thanks to their systemic action – ascending and descending underline on plants prompt nutritional activity and make crops resistant to pests.

**Suited to restraining vegetative excess.**

### **FOSFÌ NPK 12.12.12 + Micro**

It is high quality liquid fertilizer with balanced nitrogen, potassium, and chelated microelements content, suited to all crops at different phenological stages. It can be applied both by fertigation and foliar application, thanks to their systemic action – ascending and descending underline on plants prompt nutritional activity and make crops resistant to pests.



### FOSFÌ NPK 7.14.30 + Methionine

Ideal for seed germination, root growth and crop vegetative development, especially it leads to earlier maturation, higher sugar concentration and it improves markedly colour and flavour of horticultural and fruit crops.

Indeed, **FOSFÌ NPK 7.14.30 + Methionine** is enriched with methionine (amino acid, precursor of ethylene) that fastens plant physiological activities and above all, reduces fruit content of organic acids and promotes anthocyanin production (colour improvement). If applied by fertigation, it is particularly suited to make maturation uniform, reduce the number of green fruits in case of unique harvest and reduce number of harvesting stages.

### FOSFÌ ACID NP 6.40 + 2 MgO + MICRO

It is high quality liquid fertilizer that can be applied both by fertigation and foliar application. Thanks to the high phosphorous content, it stimulates seed germination, root system growth and crop vegetative development; moreover, it promotes rich and plentiful flowering. **FOSFÌ ACID NP 6.40** restrains «vegetative excess» if applied on foliage (400-500 g/hl). **FOSFÌ ACID NP 6.40** thanks to its specific formula, it can be applied for cleaning fertigation systems (driplines).

## DOSES AND METHODS OF USE



	FERTIGATION	FOLIAR APPLICATION
<b>FOSFÌ ACID NP 20.10</b> + Fe EDTA + MICRO <b>FOSFÌ NP 20.10</b> + Fe EDTA + MICRO <b>FOSFÌ NPK 12.12.12</b> + Fe EDTA + MICRO	<b>Horticultural crops in open field and greenhouse:</b> 30-60 kg/ha <b>Grapevine and olive tree:</b> 30-70 kg/ha <b>Citrus and fruit trees:</b> 40-70 kg/ha unique application at vegetative growth <b>Wheat:</b> 20-50 kg/ha <b>Flower crops:</b> 20-50 kg/ha.	<b>Horticultural, flower crops:</b> gr. 200-250/hl <b>Fruit trees:</b> gr. 250-300/hl <b>Grapevine:</b> gr. 300/hl at vegetative growth, pre-flowering, at bunch closure <b>Citrus fruits, kiwi, and olive trees:</b> gr.250-350/hl pre and post flowering <b>Lettuce and leaf vegetables:</b> gr. 200-250/hl
<b>MISCIBILITY:</b> the product can be mixed with the most common herbicides and plant protection products except for those having alkaline reaction. It is suggested to make preliminary tests of compatibility		
<b>FOSFÌ ACID 3.40</b> (0,2 Mn) (7,0 Zn) <b>FOSFÌ ZIN NP 3.40</b> (0,2 Mn) (7,0 Zn) <b>FOSFÌ ACID NP 6.40</b> + 2 MgO + MICRO <b>FOSFÌ NP 8.40</b> + 2 MgO + MICRO	<b>Horticultural crops in open field and greenhouse:</b> 20-50 kg/ha <b>Grapevine and olive tree:</b> 20-50 kg/ha <b>Citrus and fruit trees:</b> 30-60 kg/ha iunique application at vegetative growth <b>Wheat:</b> 20-40 kg/ha (increase of the cornstalk protein content, fertility, and weight) <b>Flower crops:</b> 20-40 kg/ha.	<b>200-250 gr/hl</b>
Combination with copper products is possible only on grapevine, tomatoes, and olive tree. On all the other crops it is necessary to make preliminary tests of miscibility before extending the treatment.		
<b>FOSFÌ NPK 3.24.24</b> + Fe EDTA + MICRO	<b>Horticultural crops in open field and greenhouse:</b> 20-40 kg/ha <b>Grapevine and olive tree:</b> 20-50 kg/ha <b>Citrus and fruit trees:</b> 20-50 kg/ha unique application at vegetative growth <b>Flower crops:</b> 10-30 kg/ha	<b>200-250 gr/hl</b>
Combination with copper products is possible only on grapevine, tomatoes, and olive tree. On all the other crops it is necessary to make preliminary tests of miscibility before extending the treatment.		
<b>FOSFÌ NPK 7.14.30</b> + METHIONINE	<b>Horticultural crops in open field and greenhouse:</b> 30-40 kg/ha <b>Grapevine and olive tree:</b> 30-50 kg/ha <b>Citrus and fruit trees:</b> 30-50 kg/ha - from vegetative growth, from this stage on ... <b>Flower crops:</b> 20-50 kg/ha.	<b>200-250 gr/hl</b>
<b>MISCIBILITY:</b> the product can be mixed with the most common herbicides and plant protection products except for those having alkaline reaction. It is suggested to make preliminary tests of compatibility		

## COMPOSITION

## CHEMICAL PHYSICAL PROPERTIES

PRODUCT	N. Tot.	N. Nitric	N. Amm.	N. Ureic	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	MgO	Fe EDTA	Cu EDTA	Cu Sol. in H <sub>2</sub> O	Zn EDTA	Zn Sol. in H <sub>2</sub> O	Mn EDTA	Mn Sol. in H <sub>2</sub> O	B Sol. in H <sub>2</sub> O	pH	Density	Conductivity E.C. 1‰ mS/cm
<b>FOSFÌ NP 20.10</b> + Fe EDTA + MICRO	20,0			20,0	10,0			0,3		0,10		0,08		0,06	0,12	2,55	1,25	0,4
<b>FOSFÌ NP 8.40</b> + 2 MgO + MICRO	8,2	4,8	3,4		40,0		2,0	0,02		0,15	0,08		0,06		0,10	1,63	1,45	1,7
<b>FOSFÌ ZIN 3.40 +7 Zn</b> + (0,2 Mn EDTA)	3,0			3,0	40,0							7,0	0,2			2,0	1,41	1,50
<b>FOSFÌ NPK 3.24.24</b> + Fe EDTA + MICRO	3,2			3,2	24,0	24,0		0,3	0,20		0,08		0,06		0,15	5,5	1,40	0,53
<b>FOSFÌ NPK 12.12.12</b> + MICRO	12,0			12,0	12,0	12,0		0,05			0,05		0,06			6,7	1,24	0,17
<b>FOSFÌ NPK 7.14.30</b> + METIONINA	7,0			7,0	14,0	30,0										12,0	1,44	1,02
<b>FOSFÌ ACID 3.40</b> + (0,2 Mn) (7,0 Zn)	3,0		1,7	1,3	40,0							7,0	0,2			2,5	1,50	0,80
<b>FOSFÌ ACID NP 6.40</b> + 2 MgO+ MICRO	6,0	2,9	3,1		40,0		2,0	0,02		0,15	0,08		0,06		0,10	3,0	1,52	0,90
<b>FOSFÌ ACID NP 20.10</b> + Fe EDTA + MICRO	20,0			20,0	10,0			0,3		0,10		0,10		0,06	0,12	3,0	1,24	0,18