



Premium products for quality crops

Sangral™ 12-12-36 + TE

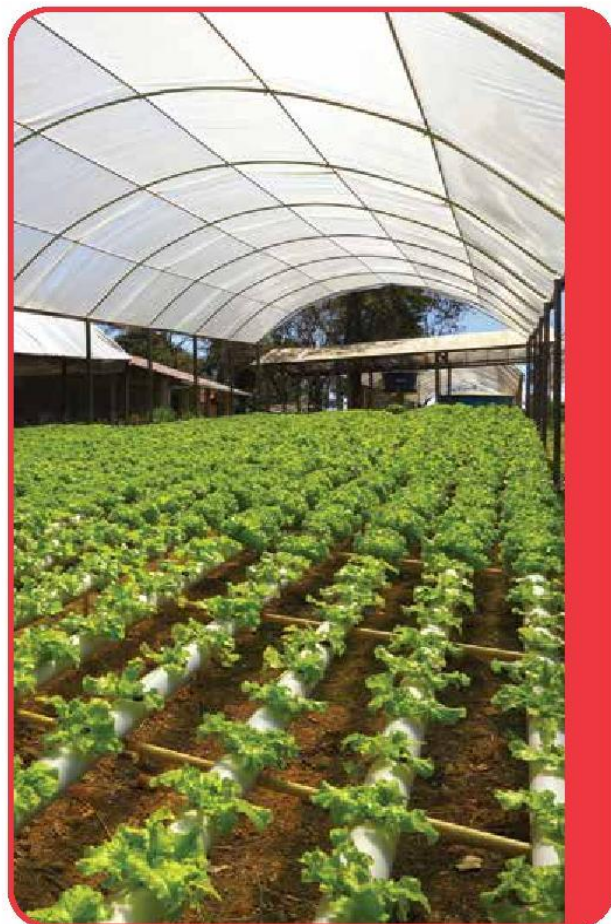
NPK Specific Information

Sangral™ 12-12-36+TE is a high potassium formula with a $N:P_2O_5:K_2O$ ratio of 1:1:3. This formula can be used in the most **intensive growth stage** of the plant: the reproductive stage. **Potassium** is responsible for the transport of carbohydrates from the leaves to the reproductive organs (fruit, seed, and tubers), resulting in higher **yield**, better **quality** and consequently a **higher farmers income**.

To maximize the yield and quality of the crop, it is important to give sufficient potassium during flowering and harvest. This 1:1:3 formula is perfect for heavy fruiting crops such as tomatoes, melon, and strawberry.

This formula has 9% of nitrate (NO_3^-), 3% ammonium (NH_4^+), and is **free of urea**. A predominant presence of **nitrate** towards ammonium assures sufficient **uptake of calcium** and **magnesium** and avoids root degeneration, especially when high soil temperatures occur. Additionally, this formula can be used for **hydroponic systems**.

Sangral™ 12-12-36+TE can be used to complete the potassium need of crops without supplying an excess of sulfate or chloride, as would be the case with potassium sulfate or potassium chloride.



Sangral™ is a top leading brand because of its excellent performance and pure quality. It is a well-established brand, and has a long proven history of satisfying farmers in their daily crop requirements.





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Fertigation/Drip Irrigation Schedule :

CROPS	APPLICATION TIME	AVERAGE DOSAGE PER WEEK	NUMBER OF APPLICATIONS PER WEEK
Vegetables: Tomato, Cucumber, Melon, Strawberry, Pepper etc.	Transplant and vegetative growth	45 kg/ha	3-6
	Flowering to ripening	60 kg/ha	3-6
	Harvest	20 kg/ha	3-6
Greenhouse crops: Tomato, Cucumber, Melon, Strawberry, Pepper, etc.	Same general recommendation but more frequent fertigation up to 10 times a week		
Fruits: Melon, Watermelon, etc.	Planting and vegetative growth	40 kg/ha	3-6
	Flowering > Fruit initiation	90 kg/ha	
	Fruit development > Harvest	70 kg/ha	3-6
Fruit trees: Stone fruits, Apple, Quince, Dates, Pomegranate, Banana and Pistachios, etc.	Vegetative growth > flowering	75 kg/ha	2-6
Citrus: Young trees Bearing trees	Winter > spring	17 kg/ha 34 kg/ha	2-6
	Young trees Bearing trees	50 kg/ha 100 kg/ha	2-6
Grapes	Grape growth -> fruit initiation	60 kg/ha	2-4
	Fruit development and growth	42 kg/ha	2-4
	Grape ripening	20 kg/ha	2-4
Potato	Initial growing fase	60 kg/ha	3-5
	Plant growth up to 15 cm	140 kg/ha	3-5
	During tuberization	25 kg/ha	3-5
Cereals and Tobacco: Wheat, Rice, Corn, Barley, and Tobacco, etc.	Early growth	50 kg/ha	3-4
	Active tillering	25 kg/ha	
	Flowering -> Grain filling and maturation	150 kg/ha	3-4
	Grainfilling and maturation	115 kg/ha	3-4
Ornamentals: Rose, Carnation, Gerbera, Bulbs, etc.		25 kg/ha	2-5

Foliar Application Schedule :

CROP	RATE PER APPLICATION	APPLICATION TIME	NUMBER OF APPLICATION
Field crops	9-11 kg / ha	During vegetative, before and after flowering	3 times per season
Orchards	1-3 kg / 1000 liter of water	Starting from leaf emergence	2-5 times per season

- Recommended time of application is early in the morning or in the late afternoon.
- When a range of rates is recommended, the lower rate should be applied when leaves are young and the higher rate to fully grown leaves.
- To obtain maximum benefit, foliar applications should be started as early as possible in the season, as soon as there is sufficient leaf area to absorb the spray.