



*Premium
Quality*

Premium products Straight Sangral™

Sangral™ is a top leading brand because of its excellent performance and pure quality. It is a well-established line of fertilizers, and has a long proven history of satisfying farmers in their daily crop requirements. For more than 30 years farmers choose for Sangral™ NPK fertilizers to satisfy their daily crop requirements.

Choosing for Sangral™ is choosing for certainty and consistency.

General Straight leaflets

Sangral™ straight products can be used in almost **all soluble fertilizers application methods**: drip irrigation, sprinkler, pivot application, or for foliar applications at different growth stages.

Every Sangral™ fertilizer is developed with special care and attention for **quality**. Every bag has been composed with the **best quality** available **raw materials** on the European market.

The Sangral™ line is characterized by its **premium packaging material**. This will preserve and protect the fertilizer content over a longer period of time.

The Sangral™ straights are easy to use. It is a **free-flowing fine crystalline** powder that quickly dissolves in water.

All Sangral™ fertilizers are virtually **free in chloride**, sodium and heavy metals. Both in purity, workability and performance, Sangral™ stands out between other available brands in the market.

All formulas are also compatible with the majority of pesticides in foliar applications.

All Sangral™ straight formulas offer integrated solutions for all plant's nutritional needs and in all crop production systems.

Sangral™ is a well-established brand due to its **excellent performance**.



Choosing for Sangral™ is choosing for a pure, easy to use, high quality product.





Premium products for quality crops

Specific Straight information

Sangral™ potassium nitrate | 13-0-46 - Designed for saline soil and soils with high Cl contents.

Sangral™ potassium nitrate is a high potassium formula with a $N:P_2O_5:K_2O$ ratio of 1:0:3. 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 maturation. This high potassium formula is perfect for heavy fruiting crops such as tomatoes, melon, and strawberry.

A predominant presence of NO_3 towards NH_4 and NH_2 assures sufficient **uptake of Ca^{2+} and Mg^{2+}** and avoids root degeneration, especially when high soil temperatures occur. Additionally, nitrogen losses through volatilization are avoided.

Sangral™ potassium nitrate 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™ urea phosphate | 18-44-0 - The only acidic powder P with pH <2, designed for calcareous conditions.

To cope with saline and alkaline growing conditions Sangral™ has developed **Sangral™ urea phosphate**. A dry, easy to dose and safe to handle acid product that will remove the hardness of the water and **bring unavailable nutrients back** into the **soil solution**: such as phosphates, calcium, magnesium and micronutrients.

Sangral™ urea phosphate is a **dry acid** which is without any handling hazards. All other acids such as nitric acid, sulfuric acid and phosphoric acid are liquid and are dangerous to use.

The acidity of **Sangral™ urea phosphate** helps to prevent blockage of pipes and nozzles of the irrigation system, which particular might occur in hard water. Hard water is high in calcium, magnesium and bicarbonates. **Sangral™ urea phosphate** cleans drippers and irrigation systems.

The maximum solubility of **Sangral™ urea phosphate** is higher than other phosphorus sources like DAP, MAP and MKP. Also due to its acidity, Sangral™ urea phosphate will provide more soluble phosphorus for plants in alkaline conditions than other phosphorus sources.

Sangral™ potassium sulfate |

Sangral™ potassium sulfate can be used in fertigation, where an accurate control of the supply of every nutrient is a key for nutrient management. It is the only potassium source that also provides the crop with sulfur, an essential secondary nutrient.

As it is free of other macronutrients, **Sangral™ potassium sulfate** is a useful nutrition management tool that allows the applications of potassium at the requested levels at any growing stage.

Sangral™ potassium sulfate can be used in growth stages with high potassium demand and little or no nitrogen requirement. It can be used after physical maturity to increase shelf life of crops. Recommended on citrus, potato, olive wheat, banana, and grapes.

Sangral™ Calmag + Zn | High quality, increased shelf life of the crops

Sangral™ Calmag + Zn is a fully water-soluble NPK, which combines three macro nutrients + one micro element: calcium, magnesium, nitrate nitrogen and zinc. This unique nutrient combination will stimulate the plant structure; increase the photosynthetic capacity and rapid leaf mass development during the vegetative stage of plant growth. **Sangral™ Calmag + Zn** stimulates a fast plant reaction because of the synergistic action for nutrient uptake between nitrates, and calcium, magnesium.

Due to its high Zinc content, **Sangral™ Calmag + Zn** has been perfectly adapted to growing condition in Middle East soil, where zinc deficiency is common.

Sangral™ Calmag + Zn can be used in fertigation and foliar applications. Due its unique nutrient composition, calcium, magnesium and zinc deficiency can be avoided with one single treatment.

Sangral™ Calmag + Zn can be used in vegetables (tomato, cucumber, pepper), fruit trees (apple, grape), and other crops with growth stages of high need for calcium and magnesium.

