GROWFORCE® KS32

NUTRITION

Readily available, low salt index chloride and nitrate free potassium along with sulphur for effective uptake and utilization in all soil types.

NPK: 0 - 0 - 27, 5.6% S

Benefits of Growforce® KS32

- Ideal high potassium source for both, soil and foliar applications with rapid rainfast properties on the foliage
- Thiosulfate sulfur gets converted into the active sulphate form within the plant to help in oil and protein biosynthesis in crops such as canola and others
- Provides highly balanced potassium and sulphur at 4 : 1 ratio favoring more potassium than sulfur compared to relatively insoluble potassium sulfate.
- Agronomically plant's K requirement exceeds sulphur.
- Effectively replaces potassium nitrate to supply potassium to the crops especially in situations requiring least amount of nitrate nitrogen during fruiting.
- Physically compatible with most agrochemicals. Eliminates potassium and sulphur deficiencies in crops. Potassium favors fruit fill and color.

About Growforce KS32

Potassium deficiencies are now common in the broadacre crops. Early application of potassium is more beneficial to cereals yield compared to the late applications and potassium also helps in frost tolerance in these crops. Potassium optimizes water use efficiency and is the key nutrient to improve crop photosynthesis. The sulphur in Growforce® KS32 improves oil production in oilseed crops since it is actively involved in the protein and oil biosynthesis. Most of the sulphur in the soil is present in organic matter as proteins and other compounds not immediately available to crops. Potassium in horticultural crops helps in maximizing sugar production and its translocation into the fruit. Crops such as strawberries and grapes require nitrate free potassium at fruiting in order to get fruits with high brix levels and better shelf life. Potatoes requirement for potassium exceeds nitrogen levels from early tuber development to tuber bulking influencing specific gravity and skin characteristics of the tubers. In sodium infested soils application of chloride free Growforce® KS32 increases potassium to sodium ratio favouring potassium uptake and exclusion of sodium by the roots. Muriate of potash may form sodium chloride which further aggravates the soil salinity problem. The thiosulfate component dissociates into sulphate and sulphur ions in soil. Sulphur ions react with soil water in presence of Thiobacillus bacteria producing sulphuric acid that buffers the root zone pH in alkaline soils towards the acidic range liberating trace elements. Unlike potassium nitrate, the Growforce® KS32 should never be applied with calcium and acids. It can be co-applied with Agri-APP. Its staggered fertigation rates depend upon the seasonal potassium requirement of the crop.

The Role of Potassium

Highly mobile in the plant, potassium regulates the turgidity of cells and is therefore important in stomata control. Potassium also maintains cell division, formation of proteins, carbohydrates and fats.

Potassium Deficiency Symptoms

- Scorched leaf edges
- Yield and quality of fruit before leaf symptoms are evident

Product Characteristics

Specific Gravity: 1.42 **Color:** Clear Colorless to light yellow liquid

Analysis	International (w/w%)
Potassium (K)	(K_2O) 27.2
Sulphur (S)	5.6

Directions for Use

Agitate contents well before dilution. Suitable for application by:

Foliar Spray	Fertigation	Centre Pivot	Boom Spray

CROP	Rate/A	COMMENTS
APPLES & AVOCADOS **- Foliar** **- Fertigation**	 .5 - 1.5 qts. 4 - 9 qts.	Apply to recently hardened spring flush or during active growing period and post harvest
ROW CROPS **Canola, Grain, Legumes,** **Corn, Triticale, Lupins & Wheat** **Cotton**	 2 - 3 qts. 1 - 2 qts. 1 - 2 qts.	Best applied at the late cabbage stage, but can also be used at other stages. Apply at 3-4 leaf stage Apply from first flowering until 2 weeks before harvest.
CITRUS **- Foliar** **- Fertigation**	 1.5 - 3 qts. 6 - 13 qts.	Apply to newly hardened spring flush or during active growing period fruit fill and post harvest.
CUCURBITS **- Foliar** **- Fertigation**	 1 - 2 qts. 6 - 9 qts.	Apply at regular intervals post flowering until harvest.
NUT CROPS **- Foliar** **ALMONDS** **- Foliar** **- Fertigation**	 1 - 2 qts. 1 - 2 qts 6 - 13 qts.	Apply at early stages of growing season when sufficient leaf cover present. Apply with compatible crop protection sprays. Almonds incrop and post harvest fertigations.
POTATOES **- Fertigation**	 6 - 13 qts.	Apply at planting and then from hooking until harvest
STONE FRUIT **- Fertigation**	 4 - 13 qts.	Do not apply on foliage. Best applied through soil.
STRAWBERRIES	1 - 3 qts.	Apply from first flowering until fruit maturity
VEGETABLES	1 - 2 qts.	Apply as required
VINES **- Fertigation**	1 - 2 qts. 4 - 13 qts.	First application: shoots 10 cm long. Second application: 5% flowering. Bunch finisher for table grapes. Apply from first flowering until fruit maturity.