

Potassium Nitrate

Suggested applications

Mainly used as water soluble fertilizers, supplies crops with water-soluble nitrate nitrogen and potassium. NOP provides an N:K balance of 13:46 which is ideal for crops with a high Potassium demand. It contains Nitrogen in Nitrate form which is easily assimilated by the plant. The synergistic effect between NO_3^- and K_2O helps the plants achieve high rates of absorption of both elements. Recommended to be used in any fertigation system and for all crops in soil or hydroponics.

Physical properties

White or colourless crystal, easily soluble in water, insoluble in anhydrous ethanol, ether. The relative density is $2.109\text{g}/\text{cm}^3$, melting point is 334°C .

Packaging & Storage

Packed in 25kg or 1000kg PP+PE bags.
Customized bags packing is available.
Stored at cool, dry and well ventilated place.

Target properties

Chemical formula	KNO_3
Molecular weight	101.1
Main contents% \geq	99
Total Nitrogen, as N % \geq	13.5
Potassium Oxide, as K_2O % \geq	46
Chloride, as Cl % \leq	0.05
Heavy Metals, as Pb % \leq	0.001
Moisture % \leq	0.2
Water insoluble% \leq	0.1
PH value of 1% solution	6.0-7.5

*permissible tolerance of 0.1-0.2% is possible for main content and moisture due different testing methods under diverse conditions