

NOVAPEAK®



0-52-34

Water Soluble Fertilizer



www.icl-growingsolutions.us



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GUARANTEED ANALYSIS, Available Phosphorus (P_2O_5) 52%, Soluble Potash (K_2O) 34%, Derived from Mono Potassium Phosphate

General information

NOVA PEAK® is manufactured specifically as a water-soluble fertilizer for use as a foliar or soil applied fertilizer. Its use is recommended as a supplement to a regular fertilizer program to enhance yield and improve quality. An application of NOVA PEAK® will provide a rapid response to needed nutrients, providing an additional source of phosphorus and potassium during the growing season. Foliar applied nutrients are absorbed more efficiently by plants than those supplied in the soil. NOVA PEAK® is a highly soluble, low salt index formulation that is versatile in a cross section of applications and across crops.



Benefits

- High analysis plant nutrients
- P and K are in readily available forms (K^+ and $H_2PO_4^-$), for rapid uptake by plants
- Low salt index. Chlorine-free, safe for use even at high concentrations
- Optimal pH (5-5.5), slightly acidic with a buffer capacity. When mixed with pesticides sensitive to high pH, it prevents the “alkaline hydrolysis” of the pesticide and increases its efficacy
- Improve plant health
- NOVA PEAK® has shown positive effects when used in a fungicidal applications
- Low impurities with no harmful residues in the soil
- Free flowing
- NOVA PEAK® has a low salt index which makes it the ideal phosphorus and potassium containing fertilizer for foliar, hydroponic, fertigation, and special starter applications.



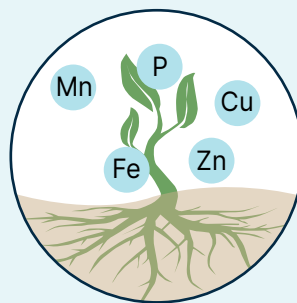
Low pH

Reduces water pH by being applied directly to hard water



Anti clogging action

Provides acidity to neutralize and dissolve bicarbonates, avoiding clogging of pipes and drippers



Enhances nutrient uptake

Acidifies the soil environment thus increasing the availability and uptake of phosphorus and micronutrients



Directions for mixing

- Fill tank half full with water before adding NOVA PEAK®. Agitate thoroughly while adding remaining water. If used in combination with pesticides, add pesticides last. Alternatively, start from an empty tank, add NOVA PEAK® into the strainer on top, and run water through the product, dissolving it while filling the tank.
- When temperatures are cold or when using cold water, allow extra time for this product to dissolve.
- Do not use additional surfactants without first checking with your agricultural consultant.
- Do not use when plants are under severe stress conditions such as heat or water stress.
- NOVA PEAK® should not be used at concentrations of greater than 1 lb./gal. of water unless the following procedure is followed: Mixes up to 1.9 lbs./gal. are possible, but consideration must be given to the low pH of the solution, and that storability of 1-1.9 lbs./gal. mixes are not recommended at temperatures below 68°F.

Cleaning of sprayer

Flush with clean water all parts of the sprayer including the pump, hoses and nozzles several times prior to and after the use of this product.

Compatibility

NOVA PEAK® is compatible with most pesticides and can be applied in existing spray programs.

WARNING: Due to its acidic nature, adding NOVA PEAK® to the spray solution will lower the pH of the solution. When using a chemical mixture that has not been used before, always try a small sample rate before application, or check compatibility by doing a jar test. It is advisable to check the pH of the finished spray solution and adhere to pesticide manufacturer's recommendations regarding pH control. Compatibility with sulfur compounds should be evaluated prior to use due to the large number of formulations that are available.

Storage

Keep the product sheltered from the sun and in a dry warehouse.

Directions for use

CAUTION: DO NOT INCLUDE NOVA PEAK® WITH COPPER SPRAYS DUE TO ITS ACIDIC NATURE.

- Avoid mixing with Calcium in the same tank. Trace elements like Fe, Zn, Mn, Cu should be mixed only in chelated form. The mix can be applied to the foliage or to the soil.
- As a foliar application it can be applied by ground or air.
- **DILUTE SPRAYS**
3 to 5 lbs./100 gal. of spray with a maximum of 15 lbs./acre.
- **CONCENTRATE SPRAYS OR AERIAL APPLICATION**
Apply 5 to 10 lbs./acre in 15 to 150 gal./acre of water. Do not apply under poor drying conditions. Do not apply with any materials that may cause russetting of fruit.



Field crops (Foliar Application):

ALFALFA CLOVER: Use 2 to 8 lbs./acre per application. First application at 6 to 8 inches, repeat applications to new growth after each cutting.

NUT CROPS: Almonds, Walnuts, Pistachios, Pecans: Make 3 to 4 applications per season at a rate of 5 to 10 lbs./acre in sufficient volume for thorough coverage. Make the first application at petal fall and continue at 30-day intervals until hull split.

BEANS (including dry, succulent and limas): Use 5 to 10 lbs./acre. Apply when plant leaves are large enough to absorb a foliar nutrient or from bud set to early bloom.

CARROTS, BEETS, SWEET POTATOES AND OTHER VEGETABLE ROOT CROPS: Use 10 lbs./acre per application.

CITRUS: Pre and Post Bloom spray: Use 3 to 5 lbs. per 100 gallons, not to exceed a total of 15 lbs./acre per application. Mid-season concentrate sprays or aerial application, use 5 to 10 lbs./acre in 15 to 150 gal./acre of water.

GRAPES: Apply at 3 to 10 lbs./acre per application when leaves first appear. Repeat application as necessary. An application pre-bloom and post-bloom is suggested if needed. Apply 10 lbs./acre within 30 days of harvest to increase solids.

STRAWBERRIES: Apply 3 to 10 lbs./acre shortly after first blooms appear. Repeat applications as necessary during the growing season to improve berry size and quality.

HOPS: Begin application at early season training and continue through end of bloom period as often as every 7 days. Use 5-10 lbs./acre per application.



Deciduous fruits

APPLES, PEARS, CHERRIES, PRUNES, APRICOTS, PEACHES, PLUMS AND NECTARINES: Apply 5 to 10 lbs./acre per application. Apply as pre-bloom and post bloom sprays.

PEARS: When daytime temperature is expected to exceed 90°F, Do not apply more than 8 lbs./acre.

Precautions: Keep a minimum of 7 days between applications. Do not apply to crops under stress. With rising temperatures (a.m.), stop spraying at 84°F. Falling temperatures (p.m.) start spraying at 90°F. Under certain conditions, including handgun application, NOVA PEAK® can cause leaf injury. To reduce chances of foliage injury be sure to obtain enough water with dilute sprays to cause runoff (350 GPA). Use correct volume with concentrate sprays to avoid runoff and excessive dripping on the tree. Be sure to avoid over spraying when treating young or dwarf trees.





CORN (Field and Sweet): Use 5 to 10 lbs./acre per application.

COTTON: Use 5 to 10 lbs./acre per application as needed, starting at squaring (pre-bloom).

LEGUMES (peas - dry and succulent), lentils, and garbanzo): Apply 2 to 8 lbs./acre in sufficient water to cover by ground or by air. Apply when plant leaves are large enough to absorb a foliar nutrient up through mid bloom stage.

CELERY, COLE CROPS AND LEAFY VEGETABLES: Use 1 to 2 lbs./acre per application.

LETTUCE: Use 1 to 5 lbs./acre. Make several applications at intervals of 10 to 14 days starting at thinning or after transplanting. Use multiple low rates instead of high rate applications.

MELONS, CUCUMBERS AND OTHER CUCURBITS: Use 5 to 10 lbs./acre per application. Make two or more applications starting just prior to bloom.

MINT: Use 2 to 10 lbs./acre per application.

ONIONS (dry and green), GARLIC: Use 5 to 10 lbs./acre per application.

POTATOES: Use 5 to 10 lbs./acre. Apply at initial tuber formation. Subsequent applications may be made with various fungicide and/or insecticide cover sprays. Consult your local Agricultural Consultant for specific recommendations.

SMALL GRAINS (wheat, barley, and oats): Use 2 to 6 lbs./acre in sufficient water to cover by air or by ground. Apply at tillering, but before early boot stage.

SUGAR BEETS: Use 5 to 10 lbs./acre. Apply when leaves are 10" across. Repeat 3 to 4 weeks later.

TOMATOES (Fresh), PEPPERS: Use 5 to 10 lbs./acre per application in a minimum of 20 gallons of water per acre by ground. Do not exceed 5 lbs./acre in 10 gallons of water by air. Two to three applications are advised at two to three week intervals, starting immediately prior to full bloom, two weeks later and finally at early fruiting stage.

TOMATOES (Processing): Apply 2 to 3 applications at 5 to 10 lbs./acre in a minimum of 20 gallons of water per acre by ground. Do not exceed 5 lbs. in 10 gallons of water per acre by air. The first application should be made immediately prior to full bloom, two weeks later and finally at early fruit sizing.



Turf and ornamentals

COOL SEASON GRASSES including but not limited to BENTGRASS, FESCUE, and BLUEGRASS:

Use during the prime growing season, spring and fall at high rates to encourage vigorous growth prior to the heat of summer and semi dormancy or dormancy of winter. Apply as often as once per week and in conjunction with pesticide applications when applicable. Use 2-4 ounces of NOVA PEAK® per 1,000 sq. ft. per application. Use a minimum of 2 gallons of water per pound of product.

WARM SEASON GRASSES

including but not limited to

BERMUDAGRASS: Use 2-4 ounces per 1,000 sq. ft. per application. Use a minimum of 2 gallons of water per pound of NOVA PEAK®. Use during the prime growing season, late spring to early fall, at high rates to encourage vigorous growth prior to the heat of summer and to encourage rapid spring re-growth. Apply as often as once per week and in conjunction with pesticide applications when applicable.

ORNAMENTALS including but not limited to TREES, SHRUBS, ROSES, BEDDING PLANTS, CONTAINER PLANTS AND OUTDOOR GARDENS:

Use at bloom, spring shoot push or shortly after transplanting and repeat in 14-21 days. Use anytime new growth is pushing, or in conjunction with pesticide applications. Use 1 lb. in 10 gallons of water and spray to wet.



Fertigation via micro-irrigation or sprinkler

Use as an augmentation or substitution for any phosphate and potassium fertilizer when a low salt index is desirable.

Direct soil applications

Best results will be obtained with a band application as a starter or side dressing. Because NOVA PEAK® has a low salt index it may be placed in close proximity to the seed at rates of 2-10 lbs./acre in no less than 5 gallons of water.



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