



(CAL-12®) Calcium Nitrate Solution is a popular fertilizer used in agriculture, particularly for blueberries, brussels sprout, cabbage, carrots, citrus, cucumbers, grapes, green beans, lettuce, onions, peppers, peaches, pears, pecans, peppers, radishes, spinach, sweet corn, sweet potatoes, turf grasses, turnips, tomatoes, walnuts, watermelons due to its dual provision of both calcium and nitrogen. Here's how calcium nitrate benefits these plants:

For Blueberries:

Soil pH Adjustment: Blueberries thrive in acidic soil, and calcium nitrate can be used to adjust soil pH to optimal levels.

Root Development: It promotes stronger root development, leading to better nutrient uptake and healthier plants.

For Brussels Sprouts:

Improved Structure and Quality: Calcium is vital for cell wall development in Brussels sprouts, leading to firmer and better-quality sprouts.

Disease Resistance: Adequate calcium helps in reducing the susceptibility of Brussels sprouts to diseases, particularly those affecting the leaves and sprouts.

Enhanced Growth: The nitrogen in calcium nitrate promotes vegetative growth, leading to healthier and more vigorous plants.

For Cabbage:

Leaf Development: Calcium is crucial for the development of healthy cabbage leaves, which form the head of the cabbage. It ensures firmness and quality of the cabbage heads. **Prevents**

Disorders: Calcium nitrate can help prevent tip burn, a common disorder in cabbage caused by calcium deficiency, leading to brown edges on the leaves.

Enhanced Growth and Yield: The nitrogen in calcium nitrate promotes vegetative growth, resulting in larger and healthier cabbage heads.

For Carrots:

Root Development: Calcium is crucial for the development of strong and healthy roots. In carrots, this directly translates to better quality taproots.

Prevents Disorders: Calcium nitrate can help in preventing disorders like cavity spot and black heart, which are related to calcium deficiencies.

Improves Shelf Life: Adequate calcium in carrots can lead to improved structural integrity, which enhances shelf life and transportability.

For Citrus Trees:

Prevents Calcium Deficiency: Calcium is crucial for the development of cell walls in citrus trees. Calcium nitrate helps prevent issues like blossom end rot, a common problem caused by calcium deficiency.

Enhances Fruit Quality : By improving the calcium content in the soil, calcium nitrate can enhance the quality and shelf life of citrus fruits.

For Cucumbers:

Improved Growth and Yield: Calcium is vital for cell growth in cucumbers, leading to healthier plants and improved yields.

Prevents Blossom End Rot: Like in tomatoes and peppers, blossom end rot can also be a problem in cucumbers. Calcium nitrate helps in preventing this disorder.

Enhances Fruit Quality: Regular application of calcium nitrate can lead to crisper, firmer cucumbers with an extended shelf life.

For Green Beans:

Improved Pod Quality: Calcium is vital for the development of plant cell walls, which directly impacts the quality of green bean pods. **For Peaches:**

Supports Fruit Development: Ensures proper development of the fruits and prevents disorders related to calcium deficiency.

Enhances Fruit Shelf Life: By improving the structural integrity of the fruit, it can extend its shelf life.

Enhanced Growth: The nitrogen component in calcium nitrate is essential for the vegetative growth of green beans, promoting lush, healthy plants.

For Lettuce:

Prevents Tip Burn: Calcium nitrate is particularly effective in preventing tip burn in lettuce, a disorder caused by calcium deficiency that affects the leaf edges.

Enhances Leaf Quality: Adequate calcium is crucial for the development of strong and healthy lettuce leaves, leading to improved texture and overall quality.

Promotes Growth: The nitrogen in calcium nitrate aids in the rapid vegetative growth that lettuce requires, resulting in fuller, lusher head. **For Grapes:**

Berry Development: Calcium is important for the development of grape berries, affecting their size, texture, and overall quality.

Vine Health: Calcium nitrate supports the overall health of grapevines, promoting robust growth and better resistance to environmental stresses.

Prevents Physiological Disorders: It helps in preventing disorders like berry shatter and uneven ripening, which are related to calcium deficiencies.

For Onions:

Bulb Development: Calcium is essential for the development and firmness of onion bulbs, contributing to their overall quality and size.

Disease Resistance: Adequate calcium helps onions resist diseases, particularly those affecting the bulb and root system.

Improved Shelf Life: Calcium nitrate can enhance the storage life of onions by improving the structural integrity of the bulbs.

For Peaches:

Supports Fruit Development: Ensures proper development of the fruits and prevents disorders related to calcium deficiency.

Enhances Fruit Shelf Life: By improving the structural integrity of the fruit, it can extend its shelf life.

For Pears:

Fruit Development: Calcium is crucial for the development of pears, ensuring proper cell wall formation and fruit integrity.

Prevents Fruit Disorders: Calcium nitrate can help prevent common calcium-related disorders in pears, such as bitter pit, which causes small, brown, sunken spots on the fruit.

Enhances Storage Life: By improving the structural strength of the fruit, calcium nitrate can extend the storage life of pears, reducing post-harvest losses.

For Pecans:

Nut Development: Adequate calcium is essential for the development of pecan nuts. Calcium nitrate ensures that the nuts develop properly, both in size and quality.

Tree Health: It supports overall tree health, promoting better leaf and branch growth, which is vital for nut production.

Disease Resistance: Strengthened by adequate calcium, pecan trees can better resist diseases and stressors, leading to healthier crops.

For Peppers:

Prevents Blossom End Rot: This is a common problem in peppers caused by calcium deficiency. Calcium nitrate helps in preventing this disorder, ensuring healthier fruit development.

Improves Fruit Quality: Adequate calcium contributes to the firmness and overall quality of peppers, enhancing their color and shelf life.

Enhances Plant Vigor: The nitrogen in calcium nitrate promotes strong vegetative growth, leading to robust pepper plants.

For Radishes:

Root Development: In radishes, calcium is essential for the development of the root, which is the edible part. Calcium nitrate ensures the formation of strong, well-shaped radishes.

Prevents Disorders: It helps in preventing various calcium-related growth issues, such as cracking and hollowing of the radish roots.

Enhances Overall Health: The nitrogen component in calcium nitrate is also beneficial for the leafy top growth of radish plants, contributing to overall plant health.

For Spinach:

Leaf Development: Calcium is essential for the development of healthy spinach leaves, ensuring proper structure and robustness.

Disease Resistance: Adequate calcium can help spinach resist diseases, particularly those affecting the leaves.

Enhanced Nutritional Value: Spinach's nutritional value, especially in terms of its calcium content, can be enhanced through the application of calcium nitrate.

For Strawberries:

Fruit Development and Firmness: Calcium is essential for the development of strawberry fruits, contributing to their firmness, size, and overall quality.

Root Health: Calcium nitrate aids in the development of a strong root system, which is crucial for the absorption of nutrients and water in strawberry plants.

Disease Resistance: Adequate calcium levels can help strawberries resist diseases, particularly those affecting the fruit and roots.

For Sweet Corn:

Supports Stem and Leaf Growth: Calcium nitrate aids in the development of strong stems and healthy leaves, which are essential for supporting the growth of sweet corn.

Improves Pollination and Kernel Development: Adequate nitrogen and calcium are important for the pollination process and subsequent kernel development in sweet corn.

Enhances Overall Plant Health: Regular application of calcium nitrate can lead to healthier sweet corn plants, which are better equipped to resist diseases and environmental stresses.

For Sweet Potatoes:

Tuber Development: Calcium is essential for the development and quality of sweet potato tubers, impacting their size, shape, and internal quality.

Enhanced Disease Resistance: Sweet potatoes can become more resistant to diseases and pests with adequate calcium levels.

Improved Storage Life: Calcium nitrate can improve the structural integrity of sweet potatoes, leading to better storage life and reduced post-harvest losses.

For Turf Grasses:

Enhanced Growth and Greening: The nitrogen component in calcium nitrate is particularly beneficial for turf grasses, promoting vigorous growth and a rich green color.

Improved Root Development: Calcium plays a crucial role in root development and overall root health, which is essential for the resilience and durability of turf grasses.

Disease Resistance: Adequate calcium can help turf grasses resist diseases, especially those affecting the roots and blades.

For Turnips:

Root Bulb Development: In turnips, calcium is vital for the development of the root bulb, ensuring it is firm and well-formed.

Leaf Health: Calcium nitrate also benefits the leafy greens of the turnip plant, enhancing their growth and overall health.

Prevents Disorders: It can help prevent issues like root cracking and internal browning, which are often associated with calcium deficiencies.

For Tomatoes:

Prevents Blossom End Rot: This is a crucial benefit for tomatoes, as they are particularly prone to this disorder.

Improves Fruit Firmness: By providing calcium, it helps in maintaining the firmness and integrity of the tomato fruit.

For Walnuts:

Nut Development: Calcium is crucial for the development of walnut shells and kernels. Calcium nitrate ensures proper formation and quality of the nuts.

Tree Health: It supports the overall health of walnut trees, aiding in leaf and branch development which is important for nut production.

Disease and Stress Resistance: Sufficient calcium strengthens walnut trees, making them more resistant to diseases and environmental stresses.

For Watermelons:

Supports Rapid Growth: Watermelons have a rapid growth rate and calcium nitrate provides the necessary calcium and nitrogen for this growth.

Improves Fruit Quality: It helps in developing a better rind quality and overall fruit quality in watermelons.

As with all fertilizer applications, it's important to tailor the use of calcium nitrate (CAL-12) using the 4R's of nutrient stewardship, or nutrient management, are commonly referred to when

talking about proper nutrient application. The 4R's stand for right source, right rate, right time, and right place and serve to guide farmers to the management practices that help keep nutrients on and in the field.

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