

Nitragin® Gold

pre-inoculant nitrogen-fixing bacteria for

alfalfa &
sweet clover

Extended label

Net weight

19 kg (42 lb)

This bag treats:

2,273 kg (5,000 lb) of alfalfa or sweet clover seed

How to apply

Nitragin Gold pre-inoculant was developed for bulk treatment by the seed processor. It is a one step system that provides a convenient and economical inoculants for your customers.

A unit contains 19.0 kg (42 lb) to treat 2,270 kg (5,000 lb) of seed.

- Apply to alfalfa and sweet clover at the rate of 189 g (6.67 oz) per 22.7 kg (50 lb) of seed or apply 226 g (8.0 oz) for 27.1 kg (60 lb or a bushel of seed)

Do not apply with water or sticker solution. Nitragin Gold must be applied dry, directly from the carton.

Application equipment

Nitragin Gold may be applied conveniently in either a batch or continuous seed mixing system. Some processors have found that a batch system provides repeated accreted application of Nitragin Gold with a minimum of calibration time. A continuous system requires initial calibration of seed flow and Nitragin Gold delivery, and periodic spot checking.

Batch seed mixing system

In batch seed mixing systems the seed is first loaded into the mixer. Then the proper amount of Nitragin Gold is added to the operating mixer and blended until the seed is uniformly coated (approximately 5 minutes).

MINIMUM GUARANTEE

300 million viable cells of *Sinorhizobium meliloti* strain NRG-185-1 per gram.

Continuous seed mixing system

Standard continuous seed treating equipment may be modified to apply Nitragin Gold. Nitragin Gold is metered into the auger mixing chamber to provide uniform application. It is necessary to calibrate both the seed flow rate and Nitragin Gold application rate to achieve the desired coverage. A properly calibrated powder feeder is essential for obtaining the optimum treatment of Nitragin Gold.

Powder feeder

A Powder feeder, such as either the Acrison 105 XF Powder Feeder with a hopper vibrator, or a AccuRate 602 Powder Feeder, is useful for the accurate application of Nitragin Gold.

Seed adhesion

To ensure optimal adherence to seed, Nitragin Gold is manufactured under controlled conditions to produce a fine powder composed of very small and uniform particles. These micron-size particles adhere very well to the seed surface forming an even coating over each individual seed.

The dry powder is simply mixed thoroughly with the seed. Do not use water or stickers of any kind. Since there is no increase in moisture during the treatment process, there are no problems with caking of seed or material and no delays in proceeding to the bagging operation.

When applied at the proper rate, Nitragin Gold will thoroughly coat the surface area of the seed. The combination of proper rate and good adherence means less dust during the inoculation process.

Nitragin[®] Gold

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Handling and storage

When handling and distributing inoculants, you are working with live bacteria called Rhizobium. These organisms are affected by many environmental conditions; therefore, Nitragin Gold must be stored and applied properly to maintain the viable bacteria.

Temperature

Nitragin Gold should be stored under cool conditions. Ideal storage conditions are from 4 ° to 13 °C (40 ° to 55 °F). During the late fall and winter inoculating season, processor warehouses should be satisfactory. Air conditioning provides very good long-term storage. Temperatures consistently exceeding 30 °C (85 °F) and long-term freezing conditions should be avoided.

Pre-inoculated seed

Treated seed should be stored under the same conditions as the inoculants.

Sunlight

Exposure to direct sunlight should be avoided because sunlight has two detrimental effects on the inoculants and the pre-inoculated seed. Ultraviolet (UV) light is harmful to bacteria and direct sunlight raises the temperature, which may be harmful.

Moisture

The Nitragin Gold inoculant is produced in a dry form, which stabilizes the bacteria and allows for long term survival. Moisture activates the bacteria. If the bacteria are activated prior to planting, survival is drastically reduced. To ensure product quality, inoculants and inoculated seed must be kept dry.

Limited warranty

The seller warrants that this product contains a minimum number of *Sinorhizobium meliloti* viable cells as specified on this label. The seller makes no other warranty expressed or implied as to product viability or performance since storage, use, and growing conditions are beyond the seller's control. Seller's guarantee is limited to the terms set out on the label and subject thereto. Buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

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* 7 days a week, April – June 15,
otherwise business hours.