



## Seed Treatment Tech Sheet



# Nitro-Coat



**Type:** Rhizobium inoculant for legumes, physical seed protection, moisture absorption aid, and fungicide retention.

A key to any successful establishment and early seed development is moisture. Nitro-Coat® is both naturally hydrophobic and hydroscopic. The protective coating prevents seeds from suddenly germinating during a brief single moisture event, while at the same time naturally absorbing

water during sufficient moisture events and helps attract soil moisture to the seed for better stand establishment.

With Nitro-Coat® each seed is inoculated with the correct Rhizobium strains and coated through a proven process that ensures a very high level of successful inoculation for each plant.

What sets Nitro-Coat® apart from other pre-inoculation operations is a unique process that focuses on two key components, maximizing live Rhizobium and coating durability. The end result is high performing legumes that are easily sown and establish strong with high nodulation rates.



Important pre-inoculation and coating criteria to insure inoculation success are 1) maximizing high numbers of the best Rhizobium strains in the initially coated seed, yet 2) eliminating coating break-down in the bag during handling and shipment. Australian researchers recently reported that Rhizobium survival on pre-inoculated seed is highly variable by company and can be very poor after pre-inoculation due to several factors. Two very important factors in their findings were the Rhizobium strains and polymer adhesives used by different companies. Certain strains were less prone to death and different adhesive polymers dried at different rates leading to different levels of Rhizobium survival (Figure). The Nitro-Coat® process is designed to ensure a consistent high level of live Rhizobium and seed durability.

**Fungicide Retention:** Fungicides have been proven protections against diseases like root-rot and pythium. When requested and applied, Nitro-Coat® is designed to keep these valuable protectors near the seed through early seedling development.

Also available as OMRI-approved.



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