NP-02

Nitrification inhibitor for urea and ammonium fertilizers

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Product and application

NP-02 is a nitrification inhibitor intended to delay conversion of ammonium to nitrate. Source-listed uses include urea, ammonium chloride, ammonium sulfate and UAN (urea-ammonium nitrate), in liquid or solid fertilizers. Confirm compatibility with the fertilizer composition and incorporation process.

Technical data

Property	Source value	Stated conditions / method
Appearance	Colorless to pale yellow liquid	25 deg C
Content	28-33 wt%	Component identity and analytical method not stated
Water	At most 2%	Method not stated

Dosage and incorporation

The source gives 0.15-0.3% relative to the combined mass of ammonium nitrogen and amide nitrogen, and separately 2-4 kg per tonne for a compound-fertilizer form, depending on nitrogen content. These expressions are not established as equivalent recommendations. Before use, obtain a written calculation identifying supplied product or active material as the numerator, the nitrogen analysis and the denominator. Do not substitute a rate from NP-01 or NP-03.

Formulation evaluation

Record fertilizer mass, nitrogen species, actual inhibitor mass and supplied-product content. Confirm addition stage, temperature, mixing and storage compatibility. For nitrification evaluation, define the test matrix, moisture, temperature, duration, ammonium/nitrate analytical method, untreated control and replication. No measured nitrogen-loss or crop-response result is supplied in this sheet.

Packaging and storage

Source-listed packaging: 200 kg and 50 kg plastic drums, or IBC. Source-stated shelf life: 365 days. Store at 5-35 deg C in a cool, dry area away from ignition sources. Confirm packaging and shelf-life conditions for the supplied commercial batch.

Document scope and supporting information

Published by XYZTING from the existing Chinese technical information for this model. The source document does not state its revision date. Source values retain their stated conditions; missing test methods and dose-basis definitions require written confirmation. This TDS is not an SDS, batch certificate or guarantee of results in every formulation. Request a separate SDS and formulation-specific technical advice.

Product and technical contact: https://www.xyzting.com/products/nitrification-inhibitor-np-02/

Documentation: https://www.xyzting.com/downloads/