XY-510

Polymer suspending agent for agrochemical formulations

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Product and application

XY-510 is a water-soluble biopolymer supplied as a fine powder. In water it forms a weak gel-like network that supports solid particles, droplets and air bubbles. The source describes thickening, suspension and emulsion stabilization in pesticide formulations, and thickening and suspension in fertilizers. Other source-listed applications include inorganic-powder suspension, coatings, water treatment, paper bonding and oilfield fluids.

Source-described properties

The source describes pseudoplastic flow over a broad shear-rate and concentration range, thermal stability, solubility and stability under acidic and alkaline conditions, and compatibility with most metal salts. Its stated optimum pH range is 5-10. These qualitative descriptions are not measured results for every formulation; validate the complete system.

Technical data

Property	Source value	Conditions / method
Appearance	Pale yellow fine powder	Observation conditions not stated
Particle size	80 mesh	Sieve standard not stated
Loss on drying	Maximum 15%	Method and temperature not stated
Viscosity	More than 1600 cP	Concentration, temperature, instrument, spindle and speed not stated
Addition level	0.05-0.3%	Numerator and denominator not defined
Optimum pH range	5-10	Source description; system-specific validation required

Dosage, incorporation and testing

The source range of 0.05-0.3% is not a confirmed production recommendation. Obtain a written basis identifying supplied XY-510 powder or active material as the numerator, and total formulation, water phase, dry solids or another defined mass as the denominator. Confirm dispersion and hydration procedure, addition order, temperature, mixing time and shear conditions. For viscosity comparison, specify concentration and basis, preparation and hydration time, temperature, instrument, spindle or geometry, speed or shear rate, and reading time. Evaluate settling, redispersion, flow and compatibility in the intended formulation under defined storage conditions.

Packaging and storage

25 kg packaging. Source-stated shelf life: two years when stored dry at room temperature. A numerical storage-temperature range is not specified.

Document scope and supporting information

Published by XYZTING as an English rendering of the original XY-510 technical information issued by Nanjing Xinyi Synthesis. The original has no printed revision date. Missing methods and dosage definitions remain identified above; no additional test results or technical sign-off are asserted. This TDS is not an SDS, batch certificate or guarantee for every formulation. Request a separate SDS and formulation-specific advice.

Source: https://www.xyzting.com/wp-content/uploads/2026/10/XY5101.pdf

Product and contact: https://www.xyzting.com/products/xy-510-polymer-suspending-agent-for-agrochemical-formulations/