XYZTU / TECHNICAL DATA SHEET

XY-510

Polymeric Suspending Agent

English translation of the Chinese technical data sheet

Product description

XY-510 is a water-soluble biopolymer supplied as a fine powder. In water, molecular associations form a weak gel-like network that supports solid particles, droplets and bubbles, providing suspension capacity and emulsion stabilization.

Typical properties

Appearance	Pale-yellow fine powder
Particle size	80 mesh
Mass loss on dry heating	Maximum 15%; source terminology, method not stated
Viscosity	Greater than 1,600 cP; test conditions not stated
Optimum application pH	5-10

Features and applications

High pseudoplasticity over a broad range of shear rates and concentrations; good thermal stability; solubility and stability under acidic and alkaline conditions; compatibility and stability with most metal salts. The source lists inorganic powder suspension, coating and fertilizer thickening/suspension, pesticide thickening/emulsion stabilization, water treatment, papermaking adhesives, and oil-drilling spacer thickening/suspension.

Dosage and use

The source lists 0.05-0.3% without a calculation basis or application-specific dosage. Confirm the basis and suitability for the intended coating formulation. Guidance for another application must not be treated as a validated coating dosage.

Packaging and storage

25 kg packages. Shelf life is 2 years under dry storage at ambient temperature.

Points to confirm - supplementary clarification

The viscosity value lacks sample concentration, preparation/hydration procedure, temperature, instrument, spindle and speed. The mass-loss test method is also unspecified. Confirm these before comparing measurements or setting acceptance limits.

Document basis and safety information

Translation prepared 25 October 2026 from the Chinese TDS supplied on xyztu.com. The original has no issue or revision date; the translation date is not an original revision date. Source claims are not independent test results.

Original Chinese TDS. This is not a Safety Data Sheet. Request the current SDS and technical clarification through XYZTU technical support.