PRODUCT TECHNICAL DATA

Xanthan Gum Suspending Agent Xytu® XY-502

Product Description

XY-502 is a water-soluble polysaccharide polymer supplied as a powder. It combines thickening, suspending, emulsifying and stabilizing functions. In water, the polymer forms a weak gel-like network that supports solid particles, droplets and air bubbles, providing strong emulsion stability and high suspending performance.

Product Features

- Strong pseudoplastic rheology: high viscosity under static or low-shear conditions and a rapid viscosity decrease under high shear.
- Excellent thermal stability; the source sheet reports no significant viscosity change from 10°C to 80°C.
- Soluble and stable under acidic and alkaline conditions, with an indicated optimum pH range of 5-10.
- Stable in the presence of most salts, including potassium, sodium, calcium and magnesium salts.
- Strong resistance to oxidation and enzymatic degradation.

Typical Properties

The source sheet does not state the concentration, temperature, instrument or spindle speed used for the viscosity measurement, or the calculation basis for the addition level. Confirm these details under the intended formulation conditions before use.

Property	Typical value
Appearance	Pale cream fine powder
Particle size	80 mesh
Loss on drying	15% maximum
Viscosity	Greater than 600 cP
Recommended addition level	0.1%-0.5%

Applications

- Suspension of inorganic powders.
- Thickening, suspension and stabilization of coatings.
- Thickening, suspension and stabilization of fertilizers.
- Thickening, emulsification and suspension of pesticide formulations.
- Suspension in water treatment.
- Thickening and suspension for oil-drilling isolation fluids.

Packaging and Shelf Life

Packaging: 25 kg. Store dry at ambient temperature. Shelf life: 2 years.