

## Technical Data Sheet (TDS)

### 1. Product Overview

- Product Name: Xanthan Gum
- English Name: Xanthan Gum
- CAS Number: 11138-66-2
- Formula:  $(C_{35} H_{49} O_{20})_n$
- Molecular Weight: Variable (1-20 MDa)
- Product Characteristics: High-purity natural biopolymer, excellent thickening, stabilizing, and emulsifying properties. Soluble in cold/warm water, stable over wide pH (2-12) and temperature (0-100°C) ranges. Non-toxic, biodegradable, suitable for food, cosmetic, pharmaceutical, and industrial applications.

### 2. Technical Specifications

Item	Specification
Appearance	White to off-white free-flowing powder
Moisture Content	≤ 15.0%
Ash Content	≤ 16.0%
Viscosity (1% solution, 25°C)	≥ 1000 mPa·s
pH Value (1% solution, 25°C)	6.0-8.0
Heavy Metals (Pb)	≤ 5 ppm
Heavy Metals (As)	≤ 2 ppm
Total Bacterial Count	≤ 1000 CFU/g
E. coli	Negative
Salmonella	Negative
pH Stability	Stable at pH 2.0-12.0
Temperature Stability	Stable at 0-100°C
Solubility	Soluble in water (insoluble in organic solvents)

### 3. Product Advantages

- Efficient thickening: Low dosage (0.1-1.0%) provides high viscosity.
- Versatile stability: Resists pH, temperature, and shear forces.
- Compatibility: Works with salts, acids, bases, and other hydrocolloids.
- Natural & safe: FDA-approved food additive, non-toxic, biodegradable.
- Multi-functional: Thickens, stabilizes, emulsifies, and suspends.

### 4. Application Fields

- Food Industry: Salad dressings, sauces, beverages, baked goods, frozen foods.
- Cosmetics: Shampoos, lotions, creams, toothpaste (texture modifier).
- Pharmaceuticals: Tablets, suspensions, ointments (binder, thickener).
- Industrial: Oil drilling fluids, paints, adhesives, wastewater treatment.



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### 5. Usage Methods

- Dosage: Food: 0.1-1.0%; Cosmetics: 0.5-3.0%; Industrial: 1-5%.
- Addition Method: Disperse in water (or mix with dry ingredients first) to avoid clumping; stir until dissolved.
- Optimal Conditions: Use at 15-35°C; compatible with most formulations.

### 6. Packaging & Storage

- Packaging: 1 kg/bag (plastic-lined kraft bag), 25 kg/drum (HDPE), 1000 kg/IBC totes.
- Storage: Cool, dry, well-ventilated warehouse ( $\leq 30^{\circ}\text{C}$ ); keep sealed.
- Shelf Life: 24 months (unopened).
- Transportation: Non-dangerous goods; avoid moisture, collision.

### 7. Safety & Protection

- Wear protective gloves and safety goggles during handling.
- Avoid dust inhalation and eye contact; rinse immediately if contact occurs.
- Food-grade product: Comply with food additive dosage limits.

### 8. Quality Assurance

- Manufactured under ISO 9001 and HACCP (food grade) standards.
- Each batch accompanied by COA.
- Provide technical support for formulation and application.

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