

SHANGHAI TRUSTIN CHEMICAL CO., LTD.
RM 2001, NO.58, CHANGLIU ROAD, PUDONG NEW
AREA, SHANGHAI CITY, CHINA 200135

Technical Data Sheet

| | |
|----------------------|-----------------------|
| PRODUCT NAME: | XANTHAN GUM |
| CAS NO.: | 11138-66-2 |
| PACKING: | 25KG kraft paper bags |

Description of the Product

Xanthan Gum, which is mainly made from starch and can easily dissolve in water, is a high molecular weight polysaccharide produced by fermentation with *Xanthomonas Campestris* under the conditions of special nutrient medium, PH, O₂-supply and temperature, then purified, dried and milled into white-like or light-yellow free-flowing powder.

The main compositions of Xanthan Gum are D-glucopyranose, D-mannose and D-glucuronic acid. The molecular structure of Xanthan Gum is as below.

1. Outstanding viscosity-enhancing property and solubility in water.
2. Unique pseudo-plasticity rheological property of xanthan gum makes it high-efficient emulsifier and stabilizer.
3. Excellent stability to large of temperature and PH change.
4. Satisfying compatibility with acid, alkaline, brine, enzyme, surface active agent, antiseptic, oxidant and other thickener.
5. Perfect synergistic action when compounding with guar gum, locust bean gum and other gums.

Technological Index

| Project Indicators | Industrial Grade |
|-------------------------|--------------------|
| Appearance | Cream-white powder |
| Particle size(mesh) | 40 Mesh |
| Loss on drying % | ≤15 |
| Ashes % | ≤13 |
| Viscosity(1% KCL,cps) | >1200 |
| Shearing Ratio | ≥6.0 |
| PH (1% solution) | 6.0 - 8.0 |
| Halotolerancy(speed 3) | ≥12.5 |

Features:

- . Without clotting when put in water.
- . High viscosity when low shearing.
- . Low viscosity when high shearing.
- . Non-thixotropy.
- . It is compatible to high concentration electrolyte, e.g. salt. Surface active agents of

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the anionic.

- . Stability in different pH conditions.
- . Stable performance at high temperature.
- . Stable in high viscosity operation
- . Even use the relative low-speed rotors, it is easy dissolved.
- . Control fluid flow on the bevel and vertical plane.
- . Prevent phase segregation of suspension liquid and emulsion.
- . Ensure that the free liquidity of the product shelf life.
- . Enhance the stability of the foam.

Application:

Xanthan Gum can be widely used in more than twenty fields, such as food, pharmaceutical, fine chemical, agriculture, oil drilling and exploitation, and so on. Comparing with other kinds of gum, xanthan gum has many advantages.

Acting as thickener and stabilizer, industrial grade Xanthan Gum can be applied to many industrial fields, such as oil drilling, pesticide, pottery & porcelain, printing & dyeing, paint, paper-making, mine-extraction, and so on.

It is specially produced as mud additive for oil drilling. Being an environment friendly and high efficiency mud additive, it has an excellent tolerance to a wide range of temperature, PH and salinity. It can extremely increase the mud penetration rate and suspension ability to the drilling-cuttings. Meanwhile, it can also reduce the pressure loss during drilling, stabilize the well-bore, prevent the damage to oil formation, and improve the efficiency of drilling, work-over and completion.

Package:

25kg kraft paper bag

Storage:

Stock in dry, ventilated, moisture-proof, sunlight-proof place.