

Xanthan Gum

Fermentation-derived polysaccharide for drilling-fluid viscosity and solids suspension.

CAS No. 11138-66-2	EC / List No. 234-394-2	Transport Non-dangerous goods
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Product Information

Xanthan gum is a high-molecular-weight polysaccharide obtained by fermentation. Hydration produces shear-thinning solutions that can support viscosity and solids suspension in compatible drilling-fluid and industrial systems. It is a polymer rather than a small molecule with a single fixed molecular weight.

Specifications

Parameter	Specification
Appearance	Beige powder
pH, 1% solution	5.5–8.0
Viscosity, 1% gum in 1% KCl	≥1,200 cP
Seawater rheology, 0.28%, 600 rpm	≥75 source reading
Seawater rheology, 0.28%, 300 rpm	≥55 source reading
Seawater rheology, 0.28%, 200 rpm	≥45 source reading
Seawater rheology, 0.28%, 100 rpm	≥35 source reading
Seawater rheology, 0.28%, 6 rpm	≥17 source reading
Seawater rheology, 0.28%, 3 rpm	≥16 source reading
Loss on drying	≤13 %
Through 28 mesh, 600 µm	100 %
Through 42 mesh, 355 µm	≥95 %

Viscosity and rheology retain source concentration and medium. The seawater test does not specify the reading unit or instrument, so no additional unit or test method is invented.

Typical Properties

Property	Typical Value
Molecular formula	Polysaccharide polymer
Molecular weight	Variable polymer molecular weight

Applications

Drilling-fluid viscosity and suspension: Biopolymer viscosifier for selected oilfield fluid systems. Evaluate low-shear suspension, pumpability and compatibility with salinity, solids and other additives.

Brine and seawater rheology: Polymer for rheology development in compatible brine fluids. Compare the stated seawater test readings and verify performance under actual concentration, temperature and shear conditions.

Industrial thickening and stabilization: Polysaccharide for selected industrial thickening and suspension systems. Qualify hydration, microbial stability and the required end-use grade before formulation.

Packaging / Storage

Item	Information
Packing	25 kg lined paper bags
Storage	Store in sealed original lined bags in a cool, dry, ventilated area. Protect from moisture and contamination and keep away from strong oxidizers and ignition sources.
Handling	Use controlled powder addition and local extraction to limit dust. Wear suitable gloves and eye protection; avoid inhalation and prevent powder accumulation near ignition sources. Clean spills promptly because hydrated gum can make floors slippery.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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