



Diutan Gum

CAS No.: 595585-15-2

Formula:

DESCRIPTION

Diutan gum is a high-molecular weight biopolymer produced by controlled microbial fermentation. It is an anionic extracellular polysaccharide with excellent rheological control properties. Compared with xanthan gum, it offers superior resistance to high temperature and salinity, ensuring reliable viscosity and stability in demanding environments.

KEY FEATURES

- Fermentation-derived polysaccharide with high molecular weight
- Outstanding viscosity retention under elevated temperature and salinity
- Improves suspension stability and provides efficient thickening
- Versatile use across construction, energy, and personal care industries

APPLICATIONS

- Construction: Cement grouts, mortars, plasters, and concrete for improved workability and stability
- Oilfield: Drilling fluids for viscosity and rheology control under critical well conditions
- Personal Care: Thickener and stabilizer in cosmetic formulations
- Industrial: Systems requiring viscosity retention and stability in extreme operating environments

TYPICAL SPECIFICATIONS

Parameter	Specification
Loss on Drying (%)	≤ 15
Viscosity @ 0.28% seawater 600 rpm (FDR)	≥ 120
Viscosity @ 0.28% seawater 300 rpm (FDR)	≥ 105
Viscosity @ 0.28% seawater 3 rpm (FDR)	≥ 48
Viscosity @ 0.28% seawater 0.3 rpm (cP)	≥ 40,000





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PACKAGING

- 50 lb (22.7 kg) bags
- Alternative packaging formats available upon request

SHELF LIFE

24 months from production date when stored as directed. Re-test is recommended if material is beyond shelf life or if packaging has been opened.

STORAGE

Store in original, sealed packaging in a dry location away from direct sunlight. Protect from moisture uptake to preserve product performance.

SAFETY & HANDLING

Use suitable PPE (gloves, goggles, dust mask if dust exposure possible). Avoid inhalation of dust and contact with eyes. Refer to the Safety Data Sheet (SDS) for full safety, handling, and disposal guidance.