

Chrome Free Lignosulfonate

Chrome-free thinner and fluid-loss control agent for water-based drilling muds

- GAC-CFLS
- Oilfield
- Drilling Mud Thinner
- Chrome-Free
- Fluid Loss Control

PRODUCT DESCRIPTION

Chrome Free Lignosulfonate is a thinner and fluid-loss control agent for drilling mud, offering notable resistance to high temperature and electrolyte contamination while remaining non-poisonous. It is fully compatible with other mud additives and is designed as an environmentally preferable alternative to chrome-based lignosulfonate thinners.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

PARAMETER	TYPICAL VALUE
Appearance	Brown powder
Material Insoluble in Water	2.5% max
Moisture	8.5% max
pH (2% aqueous solution)	2.8 – 3.8
Mud Performance — Fresh Water, Normal Temp. (viscosity / reduction)	≤20 mPa·s / ≥85%
Mud Performance — Fresh Water, High Temp. (viscosity / reduction)	≤35 mPa·s / ≥60%
Mud Performance — Salt Water, Normal Temp. (viscosity / reduction)	≤25 mPa·s / ≥65%
Mud Performance — Salt Water, High Temp. (viscosity / reduction)	≤45 mPa·s / ≥45%

Values represent typical production results and are provided for reference only; they do not constitute a binding product specification. Please refer to the Certificate of Analysis (COA) accompanying each shipment for batch-specific results.

APPLICATIONS

- Thinner and fluid-loss control agent for water-based drilling fluids, added as solution or powder
 - Effective at 1.0% (w/v) dosage in fresh water mud and 2.0% (w/v) in salt water mud, with mud pH adjusted to 10.0–10.5
 - Resists high temperature up to 150°C while maintaining mud performance
- Provides good emulsifying effect in drilling mud systems
 - Compatible with other drilling mud admixtures; suited to fresh-water systems where performance exceeds salt-water systems

PACKAGING, HANDLING & STORAGE

Packaging	25 kg net weight bags — PE film inner liner with paper-plastic composite outer bag
Storage	Keep away from water, moisture and heat; store in a dry, well-ventilated place
Handling	Weakly acidic product — avoid package breakage; wear full protective clothing to prevent skin contact
Shelf Life	24 months from production date in original unopened packaging