

# XCD

## ***Xanthan Gum Biopolymer***



**DESCRIPTION** XCD is a high purity, dispersible Xanthan Gum viscosifier which produces elevated low-shear-rate viscosity (LSRV) and high gel strengths. XCD is designed to control fluid loss invasion which contributes to reduced formation damage. The properties of XCD will provide superior hole cleaning and suspension of drill cuttings in horizontal bores.

**APPLICATIONS** XCD has excellent application as a drill-in fluid additive (DIF) or non-invasive fluid (NIF) where minimisation of formation damage in producing zones is critical. XCD is soluble in both water and acid.

In highly permeable formations, XCD helps to control fluid invasion primarily through fluid phase viscosity. Any invading filtrate will migrate radially away from the bore but an increase in viscosity under the low shear conditions will result in resistance to further flow of fluids containing XCD.

Another important property of fluids containing XCD is the ability to shear thin under high flow rate conditions. This results in the reduction of bottom-hole circulation pressures (ECD) which in turn minimises the depth of filtrate invasion.

### **ADVANTAGES**

- Controls fluid loss and formation invasion
- Minimises formation damage
- Provides superior hole cleaning in horizontal bores
- Product purity leaves minimal residue in producing formations after breaker treatment
- Excellent hole cleaning and suspension agent
- Reduces torque & drag and ECD.
- Effective over a wide range of salinity, hardness, and pH levels.
- Non-toxic and environmentally acceptable

### **TYPICAL PROPERTIES**

Physical appearance	White, free-flowing powder
Solubility in water	100 %

<b>USAGE</b>	NIF application	1 – 6 kg per 1000 litres
	Coiled tubing friction reducer	0.6 – 2.0 kg per 1000 litres
	Large diameter bores	1 – 6 kg per 1000 litres

**PACKAGING** 25 kg, heavy-duty, water-proof sacks.

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