



Just The Right Chemistry

TECHNICAL DATA SHEET  
March 1, 2003

## XCD POLYMER Viscosifier

### *Description:*

**XCD POLYMER**, an industrial grade of xanthan gum, is a high-molecular-weight linear polysaccharide that is readily soluble in water to form a viscous, highly non-Newtonian solution.

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### *Application:*

**XCD POLYMER** builds viscosity and gel structure in all water-based systems. The type of structure resulting from the use of **XCD POLYMER** varies directly with the rate of shear. This enables the user to take advantage of the extremely low viscosities of this system, while pumping down the drill pipe and out the bit nozzles, to increase the penetration rate.

At the same time, as the rate of shear decreases in the annular space between the drill pipe and the well bore, the structure increases, enhancing the carrying capacity of the circulating fluid.

**XCD POLYMER** may be used in any water-base mud for improved lifting capacity.

Normal recommendation is one pound per barrel of **XCD POLYMER** for viscosity of 35 to 38 sec/qt.

Adjust pH to 7.5 to 10 by slowly adding dilute caustic soda or potassium hydroxide solution.

Add **DSC CIDE** as a preservative, since **XCD POLYMER** is subject to bacterial degradation.

Small additions of fluid-loss control agents may be needed (CMC, starch).