Fluids Services

Product Data Bulletin

Xan D (Viscosifier)

Product Overview / Application

Xan D is a biopolymer used for increasing viscosity in water-base systems. Small quantities provide viscosity and weight-material suspension for all water-base mud systems. Xan D has the unique ability to produce a fluid that is highly shear-thinning. The primary function of Xan D is to increase viscosity for cuttings transport and suspension. Xan D will perform effectively in all water-base fluids, from highly weighted to low-solids systems. This includes freshwater, seawater, salt and heavy-brine systems. Shear-thinning fluids containing Xan D have low effective viscosities at the high shear rates encountered inside the drill string and at the bit. This low effective viscosity for minimal pressure losses and standpipe pressures allows optimized hydraulics and maximized rates of penetration. Conversely, at the low shear rates experienced in the annulus, Xan D enables the drilling fluid to have a high effective viscosity for adequately cleaning the well and suspending cuttings.

Advantages

Highly effective low shear rate viscosifier for improved hydraulics and power at the bit for maximum penetration rates

Recommended Usage

The amount of Xan D required will depend upon the desired viscosity. Normal concentrations range from 0.25 to 2 lb/bbl for most mud systems. Special fluids and difficult hole-cleaning conditions may require higher concentrations up to 4 lb/bbl.

General Properties

Physical Appearance:	Cream to tan powder
Specific Gravity:	1.5
Bulk Density:	50 lb/ft ³ (800 kg/m ³)

Toxicity and Handling

Bioassay information is available upon request. Handle as an industrial chemical, wearing protective equipment and observing the precautions as described on the Material Safety Data Sheets (MSDS). Avoid direct contact with eyes, skin, and inhalation.

Packaging and Storage

Xan D is packed in 25 lb bags and should be stored in a cool well ventilated area, free of exposure to moisture.

DISCLAIMER:

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, NOV Fluids Services, makes no representations as to the completeness or accuracy thereof. Since the product is within the exclusive control of the user, it is the user's obligation to determine the conditions of safe use of this product.



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