



DG HIGH C

PRODUCT BULLETIN

DG High C is a mixture of high molecular weight polypropylene glycols and copolymer polyols and is an excellent lubricant and shale inhibitor with worldwide usage in drilling fluids. This is a highly improved version of polypropylene glycols with drastically improved lubrication properties. DG High C forms a hydrodynamic barrier between the drill pipe and the sidewalls that coats shale and cuttings in addition to decreasing disintegration of shale and gumbos. It greatly reduces torque and drag and increases rate of penetration in all shales and gumbos. This makes DG High C perfect for horizontal drilling and sliding operations.

Applications

DG High C is used where torque, drag and/or the potential for differential sticking are likely, such as when drilling highly deviated or high-differential-pressure wells. This additive is especially useful for preventing the “stick-slip” condition in directional drilling when using the “slide” method without rotation. Normal concentrations range from 2 to 4% or 7 to 17.5 lb/bbl, depending on the mud density, desired reduction in coefficient of friction and the mud system. After the initial treatment, periodic treatments should be made to maintain the desired concentration. Treatment levels and product usage will depend on the rate of penetration, solids control equipment and dilution rates.

Physical Properties

• Physical appearance	Off White liquid
• Specific gravity	1.05-1.130 @ 25/25C PMCC
• Flash point	430°F (221°C)
• pH (2% solution)	8.0-11.0
• Solubility in water	Slight

Toxicity & Handling

DG High C is a low toxicity product. Refer to the MSDS for handling information.

Packaging & Storage

DG High C is packaged in 55-gal drums, 265 gallon Totes.