



Drilling Fluid Lubricant

Product Description:

EGS Drilling Fluid Lubricant (DFL) is ideal for reducing overall drilling costs and extending the technical limits by reducing torque and drag, reducing equivalent circulating densities (ECDs) and reducing equipment and material wear caused by the inherent stresses while drilling, completing and intervening oil and gas wells. Field applications and laboratory testing have realized torque and drag reductions in excess of 75%, ECD reductions upwards of 45% and material wear reductions exceeding 50%, over standard industry lubricating fluids.

EGS DFL is specially formulated to enhance film strengths exceeding 200,00 psi, resulting in friction reductions measured by reduced torque and drag and reduced casing and drill string wear. This reduced friction results in lower down-hole vibrations, lower stick-slip, faster ROPs and trips and fewer trips due to tool failures. EGS DFL permeates the steel crystalline surface metallurgically which in turn creates a bonding lubricant, instead of a flowing lubricant which protects the contacting surfaces from wear and reduces the friction effects of fluid flow which ultimately results in reduced ECDs. EGS DFL works by forming a metal hydride boundary layer on the metal surfaces to smooth asperities and flaws on the surface. The boundary layers formed have a lamellar molecular structure with easy shearing characteristics that create extremely low levels of boundary friction between contacting surfaces.

EGS DFL is available in both aqueous and non-aqueous formulations that are compatible with all water-based and oil-based or mineral-based drilling and completion fluid systems. DFL fluids are non-hazardous, non-polluting and non-toxic and comply with all environmental and ecological regulations for safe and effective use throughout the world.

EGS DFL is cost effective as low mixture ratios of between 4% and 8% by volume have shown to be tremendously effective in mitigating the negative effects of friction that are inherent to drilling, completion and intervention operations. This results in faster drilling times, lower NPTs and ultimately lower project costs.

Performance Features:

- Reduces drilling torque up to 75%
- Reduces drill string friction by as much as 87% resulting in faster rates of penetration
- Diminishes equivalent circulating density by 30-35%
- Fully compatible with all drilling fluids
- May be added as a lubricant or used as a base fluid
- Reduces down-hole vibrations and stick-slips
- Reduce NPT by reducing equipment wear
- Contains superior anti-wear and extreme pressure properties, reducing downtime and expensive repairs
- Non-hazardous and non-toxic
- Available in both water-based (aqueous) and oil-based (non-aqueous) formulations

DFL

Available Sizes:

SIZE	CASE QTY.	PART NO.
55 Gallon Drum	-	D30055-Aqueous
275 Gallon Tote	-	D30275-Aqueous
55 Gallon Drum	-	D31055-Non-Aqueous
275 Gallon Tote	-	D31275-Non-Aqueous

Health and Safety:

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and following the recommendations provided in the Material Safety Data Sheet (MSDS). This product is not to be used for purposes other than those specifically intended. When disposing the product, please take precautions to protect the environment.