



TEAMWORK ISN'T OPTIONAL. IT'S ESSENTIAL.

SF-2020™

High-Performance Environmentally Responsible Drilling Fluid Lubricant

PRODUCT DESCRIPTION

SF-2020™ is a proprietary, engineered drilling fluid lubricant formulated to significantly enhance lubricity, reduce friction, and improve torque and drag performance in demanding drilling environments. The product is a synergistic blend of glycol esters, sulfurized extreme pressure (EP) additives, and environmentally acceptable base oils, designed to provide both boundary lubrication and high-load film strength under severe drilling conditions.

SF-2020™ functions by forming a durable, low-shear lubricating film on metal and formation contact surfaces, reducing frictional resistance between the drill string, casing, and wellbore. The inclusion of sulfurized EP chemistry provides enhanced load-carrying capacity under high contact stress, helping protect against metal-to-metal wear and galling in extended-reach, directional, and high-angle wells.

In addition to improving mechanical efficiency, SF-2020™ supports smoother torque response, improved weight transfer, and reduced stick-slip tendencies, contributing to more efficient drilling performance and reduced equipment wear.

The product is environmentally responsible and formulated with non-toxic base fluids, making it suitable for use in environmentally sensitive drilling applications while maintaining high-performance lubrication characteristics.

PACKAGING

SF-2020™ is available in multiple field-ready formats for operational flexibility:

- 5-gallon pails (32 pails per pallet)
- 55-gallon drums (4 drums per pallet)
- 275-gallon intermediate bulk containers (totes)

KEY BENEFITS

- **Significantly Reduces Torque and Drag** – Lowers frictional resistance to improve drilling performance in directional and extended-reach wells.
- **Strong Boundary Lubrication** – Forms a durable lubricating film that reduces metal-to-metal contact and wear.
- **Enhances Extreme Pressure (EP) Protection** – Sulfurized EP chemistry provides superior load-carrying capacity under high contact stress.
- **Improves Drilling Efficiency** – Reduces stick-slip and frictional instability for smoother operation and better control.
- **Broad Fluid Compatibility** – Compatible with most water-based and synthetic drilling fluid systems.
- **Environmentally Responsible** – Formulated with non-toxic base fluids and low aquatic toxicity profile.
- **Easy to Use** – Readily disperses and incorporates into active drilling fluid systems.

TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUE
Appearance	Brown liquid
Specific Gravity	0.92 – 0.97 g/cc
pH (1% in water)	9 – 10
LC50 (ppm)	259,600
Pour Point	~15°F
Treatment Range	2-4% v-v

APPLICATIONS

SF-2020™ is recommended for use in a wide range of drilling operations, including:

- Directional and extended-reach drilling
- High-angle and horizontal wells
- High-temperature and high-pressure environments
- Applications where reduced torque and drag are critical
- Wells requiring improved lubricity and equipment protection