



NanoSlide™

NanoSlide™ drilling fluid lubricant is a multiphase lubricant designed utilizing Tribology to form a self-replenishing tribofilm on metallic surfaces, providing long-lasting wear protection and friction reduction across all types of drilling and completion fluids.

Formulated with micronized graphene and reactive chemistry, NanoSlide™ lubricant creates a durable, low-shear boundary film that adapts dynamically to drilling conditions without altering the base rheology of the mud system.

Advantages

- **Universal Fluid Compatibility**
Effective in all drilling and completion fluids, including fresh water, seawater, monovalent and divalent brines, high-hardness makeups, and produced brines.
- **Full pH Range Stability**
Performs consistently from pH 6–12, maintaining film integrity and chemical performance across varying alkalinity levels.
- **Tribofilm Formation**
NanoSlide™ lubricant chemistry and micronized graphene particles form a protective tribofilm under shear, minimizing metal-to-metal contact between the drill string, BHA and casing.
- **Wear and Friction Reduction**
The self-forming tribofilm significantly lowers the coefficient of friction and mitigates wear in harsh drilling environments, extending BHA and drill string service life.
- **Operational Cost Reduction**
By minimizing wear-related failures and tripping frequency, NanoSlide™ lubricant helps reduce nonproductive time (NPT) and overall operational expenses.
- **No Rheological Impact**
Unlike many lubricants, NanoSlide™ lubricant reduces friction without altering rheological properties.

Mud Types

WBM, Monovalent Brines. Divalent Brines, Salt Water, Produced Water

Mixing Requirements

Mix into the system via mud hopper or directly downhole through mud pumps.

Handling

Store the tote in a dry, well-ventilated area and protect from freezing.

Typical Concentration

1-3% by volume of the total circulating system as needed

Packaging

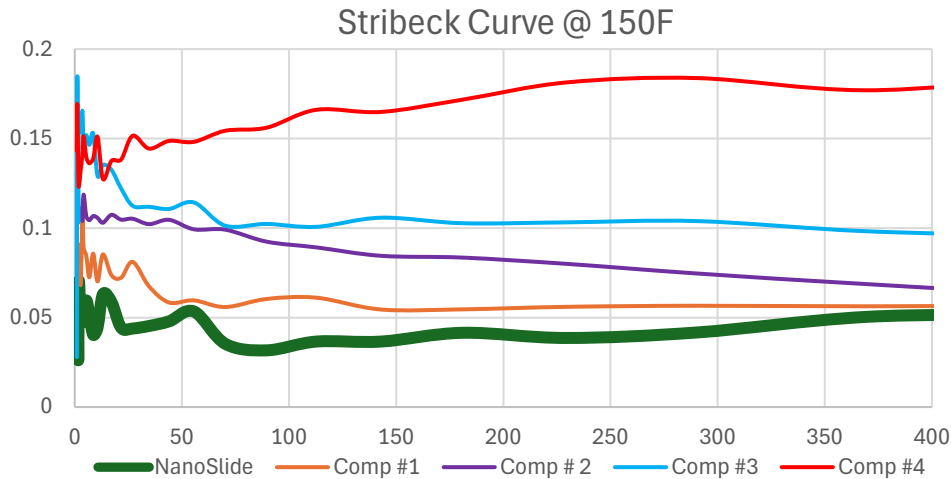
275 Gallon Tote

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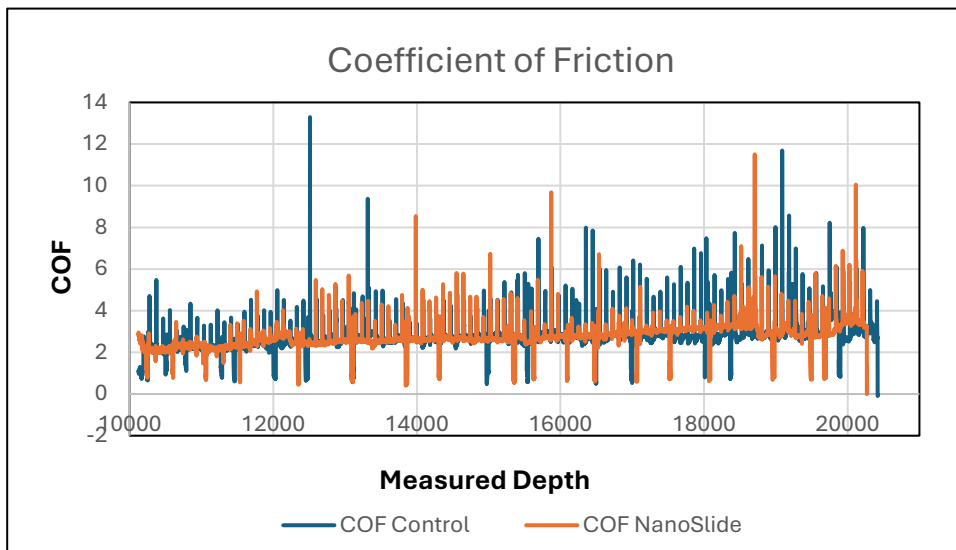


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- When tested against multiple competitive lubricants, NanoSlide™ drilling fluid lubricant shows improvement to the recorded COF



- NanoSlide™ lubricant sets the benchmark for 2-mile lateral record for major Operator in Bakken while reducing hard-banding by over 60% compared to offset wells.



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