



Technical Data Sheet

Extreme Torque Reducer

Product Description

Valence **Extreme Torque Reducer (ETR)** lubricant provides lubricity to fresh and salt water base fluids. It can be used safely and effectively in both on shore and off-shore wells.

Compatible mud systems: Cut Brine, Dispersed, LSND, **EX FORCE**, **POLY FORCE**

Treatments: **ETR** is a versatile product that can be added to the system or pumped in sweeps while drilling. The target results will drive the application of **ETR**.

Treatment Range: 1 -3% by volume in the system

Product Highlights

In 2018, **ETR** was paired with our **EX FORCE** mud system that incorporated produced brine as the base fluid to set a 2 Mile Lateral Chesapeake record for the Turner formation in the Powder River Basin.

In 2017, **ETR** was added into the **POLY FORCE** HPWBM system to drill a 2 mile Meramec lateral for Continental Resources that averaged 14.5 ppg.

KEY BENEFITS

- Decreases friction and wear
- Reduces torque and drag
- Minimizes bit balling
- Minimal effects on rheological properties
- No foaming in freshwater drilling fluids
- Performs in high solids environment

Key Properties

Color	Brown
pH	7 - 9
Solvent or Water Based	Solvent
Solvent Type	Oil
Color	Brown
Physical Form	Liquid
Sg	0.96 (RT)
Upper Limit Chlorides	40,000 mg/l
Max Temp	350°F
Packaging	Drums & Totes