PURECHEM

COILED TUBING & MILLING

PureChem® Services

Fracturing & Completions

PureChem Coiled Tubing & Milling

Standalone or Integrated

PureChem's coiled tubing products are engineered to function independently or in conjunction with each other, maximizing the efficiency of well completions through synergy.

Application	Product	Compatibility (Total Dissolved Solids)	Overview
Metal- to- Metal	PureSlide-P	Fresh - 300K	Exceptional lubricity, reducing friction and optimizing metal-to-formation contact
Fluid Friction	PFR-O	Fresh - 150K	Superior friction reduction, increased carry capacity
	PFR-Z™	150K -300K	

Our metal-to-metal and friction fluid reducers have undergone extensive testing in the Western Canadian Sedimentary Basin (WCSB). They were evaluated with different fluid combinations, temperatures, well designs, and milling operations to ensure reliability and performance.

Lubricity Laboratory Test Results

All of our lubricants have been tested with our state of the art high precision UMT TrioLab system. The Bruker is available for testing with specific brine and lubricant combinations and can be re-run with new water variations and incumbents' lubricants.

Product	Calgary Tap Water	100k Synthetic Brine	200k Synthetic Brine
Raw Source	0.3868 ±0.0077	0.3527 ±0.0079	0.3188 ±0.0068
PureSlide-P	0.0468 ±0.0076	0.0530 ±0.0059	0.0669 ±0.0063
Incumbent #1	0.0911 ±0.0035	0.0745 ±0.0069	0.0696 ±0.0067
Incumbent #2	0.0775 ±0.0030	0.0868 ±0.0043	0.0765 ±0.0051



OUR BRUKER UMT UNIT

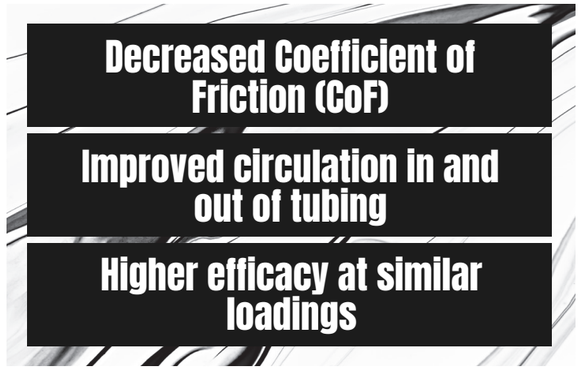
Our Bruker unit is the only industry-exclusive advanced tribology unit in North American drilling fluids laboratories.

Also used by NASA and the US Military, the German-engineered Bruker UMT unit facilitates the selection of the optimal lubricant and dosage for each fluid system.

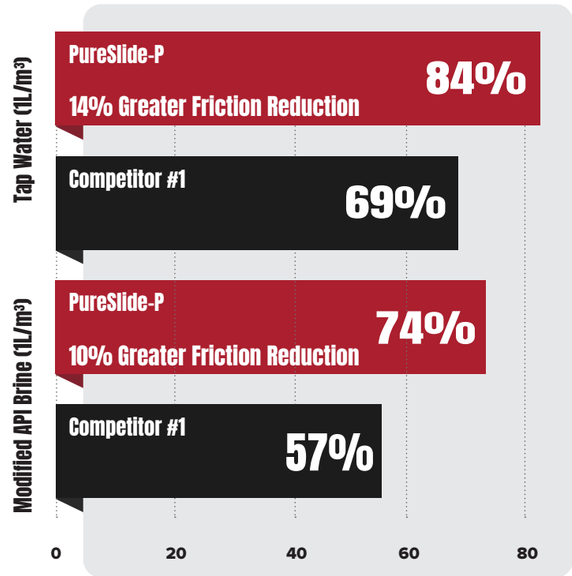
Metal-to-Metal

PureSlide- P

PureSlide-P is a water dispersible metal-to-metal friction reducer (MMFR) designed and formulated to reduce the coefficient of friction (CoF) on downhole tubulars. It stands out in enhancing metal-to-metal borehole lubricity, guaranteeing effective coating in both fresh and high total dissolved solids (TDS) brine waters. Pureslide-P can be seamlessly introduced either continuously on the fly, or as a concentrated batch mix (pill).



Coefficient of Friction (CoF) Reduction



Fluid Friction

PureChem's fluid friction reducers (FFR) are emulsion-based polyacrylamides engineered to significantly decrease friction pressures by more than 70% at low concentrations. The FFRs and MMFRs used in PureChem's coiled tubing and milling packages are designed to have a synergistic effect: a combination of FFRs and MMFRs will reduce overall CoFs. They are formulated for easy addition on-the-fly, ensuring convenient usage with a synergistic surfactant package pre-engineered into the emulsion to ensure rapid hydration.

PFR-O

PFR-O is an emulsion-based fluid friction reducer designed for real-time addition to operations. It's a high molecular weight, concentrated anionic polyacrylamide suitable for freshwater to medium salinity produced water brines.

PFR-Z™

PureChem's exclusive PFR-Z HVFR product has been developed for pushing the operational and productivity limits in produced waters. PFR-Z has zwitterionic and amphoteric technology that can withstand high TDS recycled waters throughout operations.

- Lower Loading Rates
- Minimized Pump Pressure
- Salinity Flexibility / ESG Benefits
- Lower Cost



PURECHEMSERVICES.COM
HEAD OFFICE: (403) 269-2800
14TH FLOOR - 332 6 AVE SW
CALGARY, AB T2P 0B2