

ALPHA FRICTION REDUCERS™ CT LB

# FRICTION REDUCER



ALPHA ENERGY  
Technologies

## ALPHA-CT LB

### Description

Alpha Friction Reducer CT LB is a high viscosity anionic copolymer slurry designed for use in coiled tubing operations in fresh to mildly briny water sources. Higher viscosity allows for the improvements for cuttings removal, hole stability, decreasing fluid loss, better penetration rates, shale stability, and stuck pipe, allowing for more efficient completions.

### Application

Alpha Friction Reducer LB has been tested in water sources up to 60,000 ppm TDS without any apparent significant affect on performance, including in the presence of at least 500 ppm Calcium. All friction reducers are heavily impacted by the presence of other divalents and common ion contaminants, and pre-job testing is recommended to ensure proper inversion and viscosity buildup will still occur.

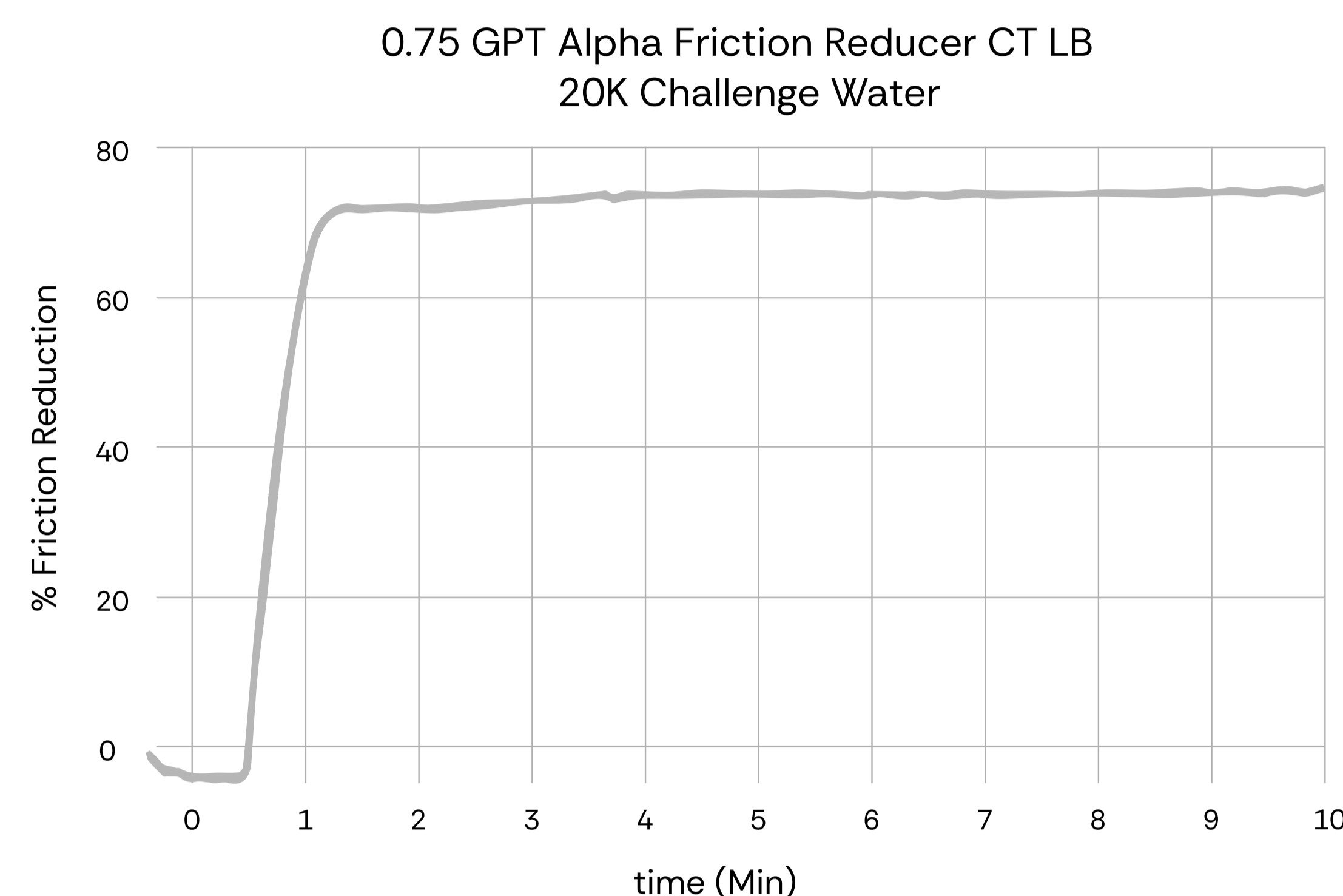
Alpha Friction Reducer LB is compatible with crosslinked and linear fluids, all biocides commonly used in oilfield, scale inhibitors, and both anionic and non-polar surfactants. Alpha Friction Reducer LB will not reduce performance of lubricants.

Operational considerations. Alpha Friction Reducer CT LB has higher performance than most anionic emulsion based friction reducers on the market. Alpha CT LB will give equivalent or better performance at dosages 10–20% below other FR products. Alpha CT LB should be dosed at or around 0.5 to 2 quarts per 10 bbl of fluid.

Alpha CT LB is a stabilized slurry friction reducer, which gives certain considerations. Care must be taken to not expose Alpha CT LB to water before being pumped for the coiled tubing operation, which includes the recommendation of one-way valves. Alpha Friction Reducer CT LB can be delivered to location either via bulk ISO containers or 275 gallon totes. Please contact Alpha Energy Technologies for other container size options.

### Additional Information

Reach out to your AET account manager today for more information, samples, and other high-performance products.



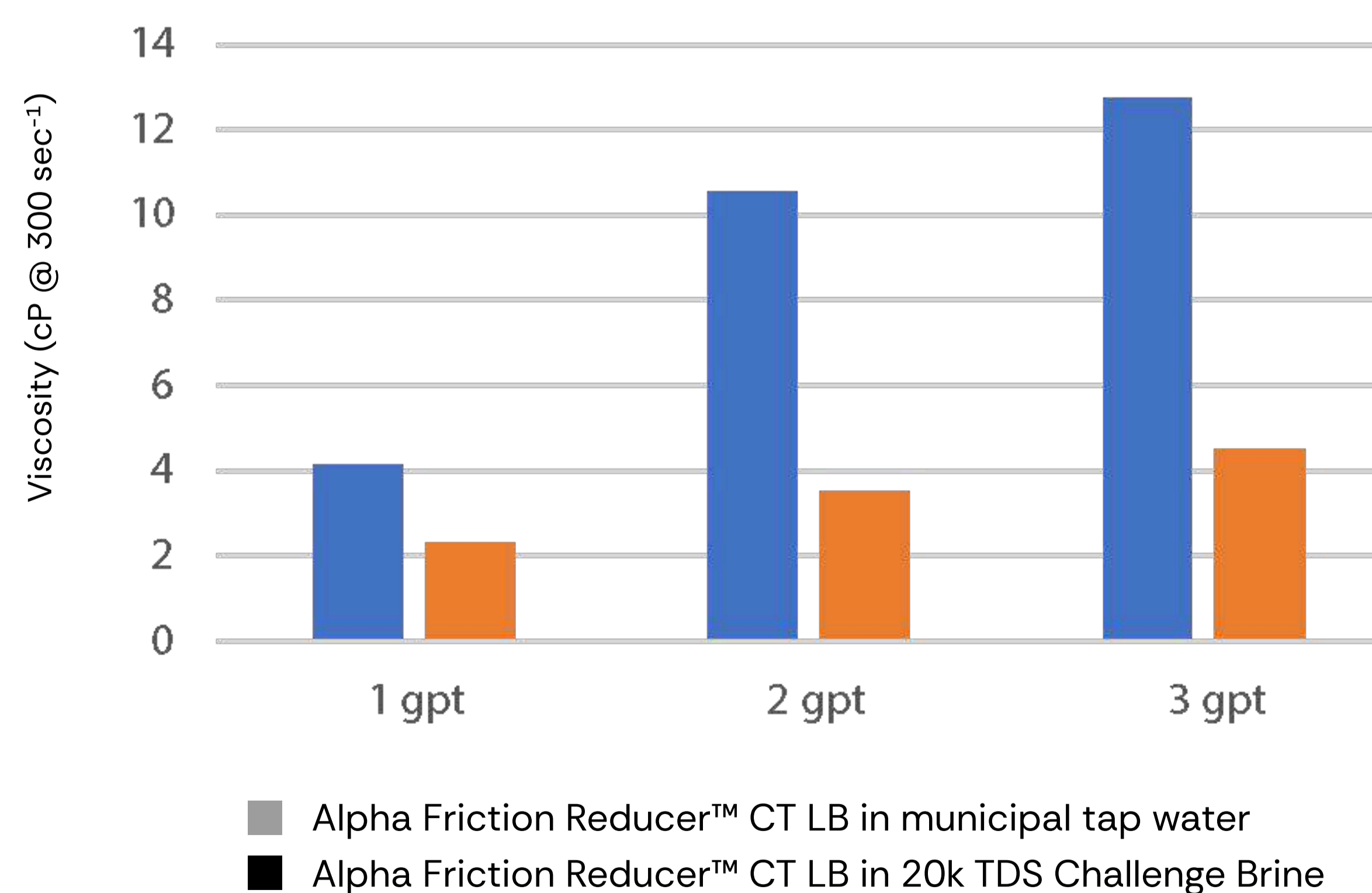
Friction Reduction Results for Alpha Friction Reducer CT LB in 20,000 ppm TDS water, including 500 ppm of calcium, at 0.75 GPT loading

### Properties

Color	Tan/Off-white
Form	Slurry/Suspension
Density	8.75 ± 0.2
Viscosity	100–200
Suspension Stability	Up to 135°F <sup>1</sup>
Pour Point	32°F
Flash Point	>200°F
Ionic Charge	Anionic
Water Range	Fresh – 60K TDS <sup>2</sup>

<sup>1</sup> In the case of any visible separation, recirculating through the container will remove this effect. It is recommended that product is circulated once every two weeks if not used at all.

<sup>2</sup> Up to 60K PPM TDS is compatible for Alpha CT LB, however high concentrations of multivalent cations such as calcium, magnesium, and iron will affect Alpha Friction Reducer CT LB's performance. A flow loop test using source waters is always recommended prior to operations to ensure performance via testing when total dissolved solids (TDS) increases past 60K is expected or could be present.



Alpha Friction Reducer CT LB viscosity in different water sources. Houston tap water (<1,500 ppm TDS) in blue, 20k challenge water (with 500 ppm CaCl<sub>2</sub>) in orange. Measurements taken on a Fann 35 with an R1B1 configuration after 5 minutes of hydration.

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