



HYBRID CHEMICAL  
TECHNOLOGIES

# FRICITION REDUCER

---

## FR-101A

FR-101A is an economical anionic polyacrylamide emulsion friction reducer for fresh water and light brines (<5% NaCl Equivalence), ideal for a wide range of surface water temperatures. When pumping at high rates, the addition of a friction reducer can change the flow regime from turbulent to laminar flow, significantly reducing friction pressures.

## APPLICATION

FR-101A is typically used at a loading of 0.5-1.0 L/m<sup>3</sup>, to observe a 70% reduction in friction pressure. It can be added on the fly and has fast inversion and hydration times. Compatible with most fracturing fluid additives.

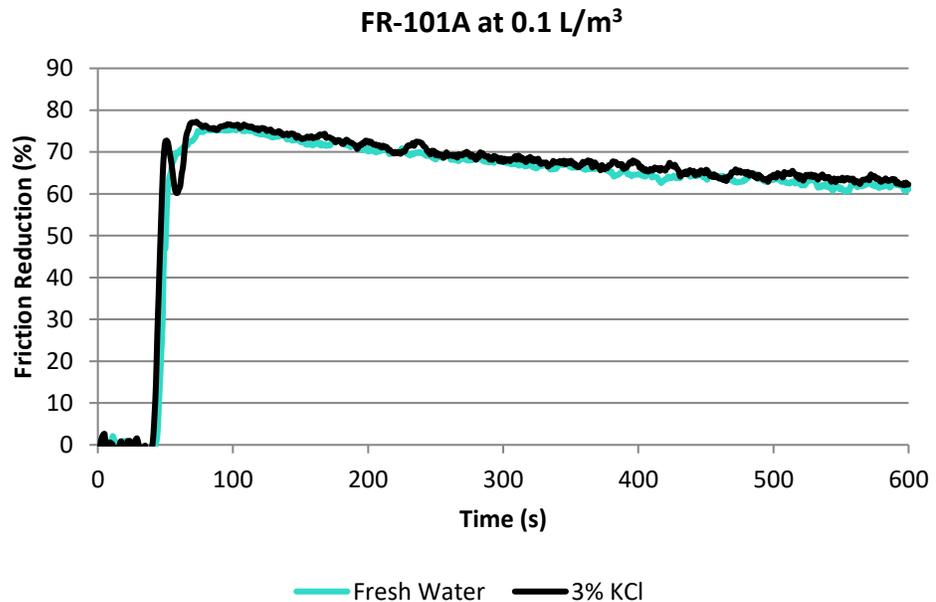
## PROPERTIES

<b>Appearance</b>	White opaque liquid
<b>Odour</b>	Slight Hydrocarbon
<b>Charge</b>	Anionic
<b>pH</b>	6.5-9
<b>Flash Point</b>	>93.3°C

## HANDLING & STORAGE

Handle wearing appropriate PPE. Ensure adequate ventilation. Refer to SDS for more information.

## PERFORMANCE



Information is provided for general purposes only and is believed to be accurate at the time of publication. Hybrid Chemical Technologies and its affiliates do not make any warranties or representations of any kind regarding the information and disclaim all express and implied warranties or representations to the fullest extent permissible by law, including those of merchant ability, fitness for a particular purpose or use, title, non-infringement, accuracy, correctness or completeness of the information provided herein. All information is furnished 'as is' and without any license to distribute. The user agrees to assume all liabilities related to the use of or reliance on such information. HYBRID CHEMICAL TECHNOLOGIES SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL DAMAGES FROM ANY CAUSE WHATSOEVER INCLUDING BUT NOT LIMITED TO ITS NEGLIGENCE.