



# Gas Well Supply

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## Technical Information

### PF – 903

Performance Foamer

#### PRODUCT DESCRIPTION

**PF-903** is a specially formulated solution of anionic foaming agents and surfactants designed for injection into gas wells to provide high performance gas well de-watering. **PF-903** is recommended for use in the removal of both low and high total dissolved solids brines commonly found in producing gas wells. **PF-903** provides excellent stability in the presence of down hole hydrocarbon influx.

#### PRODUCT FEATURES

- \* **Highly effective in Fresh Water and Brines**
- \* **Excellent Hydrocarbon Tolerance**
- \* **Excellent Water Carrying Ability**
- \* **Biodegradable**

#### PHYSICAL PROPERTIES

<b>Form</b>	70°F Liquid	<b>Flash Point, TCC</b>	>200°F
<b>Color</b>	Blue	<b>Pour Point</b>	-5°F
<b>Ionic Charge</b>	Anionic	<b>pH (10% Solution)</b>	8.5-9.0

#### APPLICATION

**PF-903** may be applied by either continuous injection or batch treatment. Typical applications rates for continuous injection via side stream flush range from 0.1% to 0.25% (4 to 10.5 gallons/100 barrels). Sufficient flush down the annulus should be provided to assure the

product reaches the bottom of the hole. Use concentrations are dependent upon well depth, the quantity and salinity of the fluid to be removed, the presence of condensate, bottom hole temperatures and the quantity of gas being produced. **PF-903** may be injected in full strength form, or blended with water or methanol prior to injection.

In batch type treatments, **PF-903** is poured down the tubing of the well followed by a flush with produced water. Typical use concentrations range from 2 to 10 gallons per well. The well should be shut in for sufficient time to allow the product to reach the bottom of the hole. The well should then be opened to a low pressure system and allowed to unload for at least one hour prior to returning the well to production.

## **SHIPPING AND HANDLING**

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**PF-903**, a gas well foamer, is available in 5 gallon plastic pails, 55 gallon drums, and bulk tank wagons. As with any industrial chemical, avoid prolonged contact with the skin. In case of skin or eye contact, flush the exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request or will be forwarded upon the purchase of **PF-903**. Do not get **PF-903** in eyes, on skin, or on clothing. Wash thoroughly after handling. Soiled clothing should be removed and laundered before reuse.