

## **PRO-402 Foamer**

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PRO-402 is a water soluble glycol based foamer.

## **Product Use Information**

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When a gas well velocity drops below the critical velocity to lift produced fluids out of the wellbore a loading effect occurs which restricts gas production. Once the gas well has built up enough gas pressure to overcome the hydrostatic pressure of the fluid then the well will “unload” and resume normal gas production until the cycle repeats. To alleviate this problem chemical foamers have been used to reduce surface tension of the load fluid and allow the fluid to be lifted to the surface so gas wells produce more consistently.

## **PRO-402 Injection Volumes**

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For gas wells that are experiencing a history of “loading” and high differential pressures between the casing and tubing. PRO-402 has been typically injected at 5 to 10 liters per day to overcome the hydrostatic pressure of the fluid column in the wellbore.

## **Foamer Monitoring Techniques**

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- Chemical foamer testing
- Analyze Well test chart

## **Physical Properties**

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Density,	1.1
Form,	Liquid
pH,	7 - 8
Appearance,	Clear
Solubility,	
	Fresh Water – Soluble
	Oilfield Brine – Soluble
	Methanol – Soluble
	Aromatic Solvent – Dispersible

## **Material Compatibility Information**

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Metals: 316 Stainless steel

Plastic: HD polyethylene  
HD polypropylene  
Teflon

Elastomers: Polytetrafluoroethylene [Teflon]

## **Application Information**

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To ensure chemical foamers reach the wellbore and fluid column, the annulus must not have a packer and the tubing must be landed close to the perforations.