



## ***PA-100 Series***

### Paraffin/Asphaltene Package

**PA-100 Series** is used in the dispersion, penetration, and removal of paraffin/asphaltene deposits, and heavy hydrocarbon based sludge.

**PA-100 Series** also delivers versatility as a co-solvent, which makes it miscible in both H<sub>2</sub>O and oil, with excellent water wetting capabilities and emulsion breakers.

**PA-100 Series** enhances aromatic solvents, diesel, condensates, and crude oils by increasing their abilities to penetrate and solubilize heavy hydrocarbons during the removal process without the fear of re-deposition, or by having upset production facilities.

**PA-100 Series** can be combined with one or more aromatic solvents to give more of the look of a custom blended that can be adjusted to address the tighter more complex carbon chains. In the **PA-100 Series**, products have been designed to work in low bottom hole temperatures and sub-sea pipelines, where thermals are not adequate enough to aid most aromatics in a sufficient removal of paraffin/asphaltene build-up.

**PA-100 Series** can be used in 2% KCL Water or solvents as a pre-soak before stimulation treatments, such as acidizing and/or fracturing. This method is used to remove any light hydrocarbons, and to water wet the formation, thus preparing the formation face so that optimized performance can be expected from the acid and/or fracturing stimulation procedure.

<b>Specific Gravity:</b>	0.918
<b>Appearance/Odor:</b>	Light Amber/Aromatic
<b>Solubility:</b>	Oil/Water

***See MSDS***

**PA-100 Series** is recommended in H<sub>2</sub>O at a loading of 3% to 15%, and at a loading of 5% to 25% in solvents, depending on the severity of damage. Samples should be obtained to determine that each individual well has the proper loading.