



# **P-NEA2**

## **STIMULATION SERVICE BULLETIN**

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### **P-NEA2 (PETROCHEM-NON-EMULSIFYING AGENT)**

#### **TECHNICAL DATA**

**P-NEA2** non-emulsifying agent is a functionally non-ionic surfactant that is effective in preventing and/or treating emulsions over a wide range of systems. This low-cost product has been formulated to function with Petrochem's corrosion inhibitors, such as **P-HTI**, in preventing and/or resolving emulsions encountered in acidizing limestone and sand stone formation.

P-NEA2 will also function in unconsolidated sandstone acidizing operations, either alone or in combination with mutual solvents in a pre-flush or after flush. It can also be used in the acid with a mutual solvent. However, more acid corrosion inhibitor is required when used in this manner if the temperature is greater than 150°F and as much as 10 volume percent mutual solvent is used.

P-NEA2 is recommended when fracturing limestone or sandstone formations with brine, acid or oil-base fracturing fluids. It is also effective in oil and water stimulation and over flush fluids. Its excellent water-wetting properties, coupled with good interfacial and surface tension reducing capabilities, act to prevent well bore and formation damage due to emulsion stability, oil wetting and particle plugging.

#### Recommended Treating Rate:

1. Lime or consolidated sandstone - 0.1 to 1.0 percent.
2. Unconsolidated sandstone - 0.5 to 3.0 percent.
3. Unconsolidated sandstone - 0.5 to 3.0 percent with 5-10 percent mutual solvent.

#### Typical Physical Properties

Density, lb/U.S. gal @ 60°F	8.50
Flash Point, SETA, CC, °F/°C	55/13
Pour Point, ASTM, °F/°C	-50/-45
Viscosity, CS @ 100°F	4.3



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#### TECHNICAL DATA CONTINUED...

Typical Physical Properties:

CC @ 150°F ..... 2.6

Solubility:	Acid	Dispersible
	Barines	Dispersible
	Hydrocarbons	Dispersible

Packaging and Availability:

P-NEA2 is available in bulk shipments and in 55-gallon (or 200-kilo net weight) non-returnable drums. Always keep drum openings closed both as a safety precaution and to prevent product contamination and evaporation.

P-NEA2 contains no organic halides or heavy metals known to be harmful to process equipment or refinery catalysts.