
PRODUCT DESCRIPTION

PA-111 is a high molecular weight polymer used to prevent or reduce asphaltene deposition in oil well tubulars, pipelines and related production equipment. PA-111 can also be used to prevent asphaltene deposition in the reservoir by squeeze placement applications.

RECOMMENDED APPLICATION

PA-111 is effective in a broad range of crude oil types and possesses low viscosity, low pour point and low shear sensitivity. The temperature stability of PA-111 is greater than 550°F (287°C) thus enabling the application with down-hole injection systems.

PA-111 can be continuously injected at the wellhead or down-hole for prevention and inhibition of asphaltene deposits in a pipeline or down-hole tubulars normally at 50 - 500 ppm of total produced hydrocarbons. For use in squeeze treatments 2 to 3 gallons per 1000 gallons of treating fluid will normally prevent asphaltene for some production period thereafter. Routine treatment of the well with PA-111 can then be done to continue the protection against asphaltene deposit formation.

COMPATIBILITY

PA-111 has no known incompatibilities.

TYPICAL PHYSICAL PROPERTIES

Form:	Liquid
Chemical Family:	Organic
Color:	Brown
Solubility:	Oil
Odor:	Aromatic
Wt. per Gal.:	7.8 lbs.
Charge:	NA
Flash Point:	142 ⁰ F (61°C)

HANDLING/STORAGE

PA-111 is a combustible liquid. Store away from hear, sparks and open flame. PA-111 is stable under normal conditions. Avoid sources of ignition and strong oxidizing agents. Refer to Material Safety Data Sheet (MSDS) for handling and hazard data.

PACKAGING

PA-111 is shipped in 55 gallon poly drums.