

# DRA66

## Drag Reducing Agent

### DESCRIPTION

DRA66 is a complex proprietary blend of organic hydrocarbons used to help reduce drag, lower back-pressure, and improve flow in crude oil pipelines. DRA66 creates a molecular bond with crude oil and utilizes wall layer modifications to reduce turbulent friction in the system. This results in laminar flow conditions in pipelines with abnormally high Reynolds numbers. This helps reduce the amount of energy required to transport the liquid and improves the flow characteristics.

### APPLICATION

DRA66 is recommended where producers are experiencing restricted flow due to volume of flow and/or line restrictions from deposits or paraffin/s. DRA66 works to remove these deposits, while reducing the energy loss from turbulent flow conditions. This product was designed to be used in crude systems and therefore has excellent solvency and compatibility given its organic structure. It is recommended for use in refinery and pipeline applications as an alternative to typical long chain polymer products either because they cannot be used or have proven ineffective. DRA66 should be injected neat into the flowing stream of crude upstream of any flow restrictions. The product is typically used at a dosage rate of 50 - 800 ppm depending on the line restriction and volume of flow to be increased. It is recommended to start at lower injection rates and ramp up slowly to allow for full system saturation to achieve the desired results.

"Empty" containers may retain residue (liquid and/or vapor) and can be dangerous. Do not pressure, cut, weld, braze solder, drill, grind or expose such containers to heat, flame, sparks or other forms of ignition. "Empty" containers should be drained, properly bunged and returned to a container conditioner. Avoid prolonged contact with skin and frequently change soiled clothing. In case of contact, wash thoroughly with soap and water for 15 minutes or until the irritation subsides. The formation of mists should be avoided. Do not take internally. If swallowed, do not induce vomiting. Call physician or Poison Control Center immediately. Keep out of reach of children.

### FEATURES & BENEFITS

Typical drag reducers made from long chain polymers tend to be easily sheared. The components used in DRA66 are shear stable and in the event that shearing occurs the DRA66 starts to repair itself within seconds and form back to its original structure quickly after shear. The polarity of the molecules helps to form micelles, which disrupt turbulent flow and reduce friction within the fluid and along the pipe walls. Other potential benefits are improved pipeline pump efficiencies and reduced maintenance costs. Typical drag reducers require specialized pumping equipment due to the breakdown of polymers and heavy viscosity, while DRA66 can be pumped through standard chemical pumps and filters.

### PROPERTIES

Test	Typical Inspections
Viscosity, CST@20 C	.55
Color	Light Amber
Appearance	Liquid
Odor	Mild Hydrocarbon
Sp. Gravity	.81

\*The values shown here are typical and may vary within modest ranges.

### HEALTH & SAFETY

DRA66 is a hydrocarbon-based solution and should be treated with care, as is the case with any organic chemical. Protective clothing, such as chemically resistant rubber gloves, aprons and safety glasses/goggles, should be worn when handling this material. If contact occurs, wash the affected areas with copious amounts of water. Refer to the Safety Data Sheet (SDS) for more information.

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