



PRODUCT DATA SHEET

AGS-66 (Drag Reducing Agent) CRUDE OIL PIPELINES

PRODUCT DESCRIPTION

AGS-66 is a complex proprietary blend of organic hydrocarbons used to help reduce drag, lower back-pressure, and improve flow in crude oil pipelines. AGS-66 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.

PRODUCT BENEFITS

Typical drag reducers made from long chain polymers tend to be easily sheared. The components used in AGS-66 are shear stable and in the event that shearing occurs the AGS-66 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 AGS-66 can be pumped through standard chemical pumps and filters.

APPLICATIONS

AGS-66 is recommended where producers are experiencing restricted flow due to volume of flow and/or line restrictions from deposits or paraffin/s. AGS-66 works to remove these deposits, while reducing the energy loss from turbulent flow conditions. AGS-66 also displays high temperature tolerances and can be applied in systems up to 200°C (450°F). 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. AGS-66 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.

- The polar nature of the AGS-66 (DRA) helps to form micelles, which disrupt turbulent flow conditions and allow for improved flow.
- Less maintenance and downtime to perform line cleaning (pigging).
- AGS-66 is a shear stable drag reducing agent, where polyacrylamides are not shear stable drag reducing agents.
- AGS-66 also liquifies paraffin in pipelines, where no polyacrylamides can do.



