

# ICS-DRA

Drag Reducing Agent



International  
Chemical  
Group

## Description:

ICS-DRA is a Drag Reducing Agent (DRA) designed to increase the flow rate by reducing the pressure drop in crude oil pipelines. ICS-DRA works by reducing the turbulent burst found in oil pipelines, thus reducing the energy consumption.

ICS-DRA can be classified as an ultra-high molecular weight PAO (Polyalphaolefin) that is suspended in a non-aqueous media. Pipeline pressure drops of 40-50% can be observed with as little as ppm (part per million) treatments.

## Applications:

ICS-DRA must be injected through the proper dosing pumps. ICS-DRA should be injected into the pipeline on the discharge side of the boosting pump to ensure dissolution into the oil. The Drag Reducing effects will not be noticed until the ICS-DRA begins to dissolve in the oil. The polymeric material will degrade by pump shearing, so if there are multi stage booster pumps in the transmission line, there will have to be multiple injection points on the discharge side of each boosting station.

## Physical Properties:

|                          |                                    |
|--------------------------|------------------------------------|
| <b>Appearance:</b>       | White slurry,<br>hydrocarbon odour |
| <b>Specific Gravity:</b> | 0.88 @ 25°C (77°F)                 |
| <b>Flash Point:</b>      | 65 – 70°C<br>(149 – 158°F)         |
| <b>Freeze Point:</b>     | -20°C (-4°F)                       |

## Dosage:

The dosage will be determined by each pipeline and crude oil conditions. Typical rates are 50 – 75 ppm.

## Handling:

Please refer to the Safety Data Sheet for further handling information.

## Packaging:

ICS-DRA is available in drum and tote quantities.

Technical Data Sheet

Liability Disclaimer - The information in this Data Sheet is provided without suggestion of warranty or guarantee. "Physical Properties" are typically values rather than specifications. The user is responsible for investigation for suitability of this product for their own use.



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