

DRA-UBPro-471

Introduction

UBPro-471 is a Drag Reducing Agent (DRA in short).

- Designed to increase flow rate or to reduce pressure drop in the pipelines delivering crude oil.
- As an ultra-high molecular weight polyalphaolefin dispersed in a non-aqueous base / carrier. Drag reduction begins as soon as DRA starts to dissolve in the hydrocarbon being delivered.
- When dissolved DRA product passes through a boosting pump the polymer is broken down or worn out by the shearing exerted by the boosting pump. Consequently, a multi-stationed pipeline usually requires repeated DRA injection after each boosting pump station in order to achieve overall flow increase through the whole pipeline length.

Typical Physical Properties

Items	Specification
Appearance	White or light Grey Liquid
Odor	Alcoholic (Perceptible)
Specific gravity (20°C)	0.85~0.90
Freezing Point, °C	-30Min
Flash point(Closed, °C)	60Min
Viscosity, mPa·s@50s ⁻¹	400Max
Boiling Point, °C	160 (Initial)

Application

- Used in a wide ambient temperature envelope ranging from -20 to +50°C.
- Dissolves quickly in hydrocarbons, Increased flow rates.
- Extended pipeline lifespan.
- Reduced energy consumptions

Recommended Handling

- The recommended dosage is required for optimal results by a pilot test.
- All personnel handling this material must handle it as an industrial chemical, wearing protective equipment and observing the precautions as described in the Material Safety Data Sheet (MSDS).

Packaging and Storage

- 1000L IBC. Supply in other packing such as ISO tanks can be offered upon request.
- Store in dry, well-ventilated area. Keep container closed. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and /or stacking.