



## DRAG REDUCING AGENT

### FLEXIN-A-C

#### GENERAL INFORMATION

FLEXIN-A-C is a Drag Reducing Agent (referred to as DRA) applied to increase flow rate or to reduce pressure drop in the pipelines delivering crude oil.

This product can be described as an ultra-high molecular weight polyalphaolefin dispersed in a non-aqueous base / carrier.

#### PHYSICAL PROPERTIES

<b>Form</b>	Slurry
<b>Color</b>	White or light grey
<b>Odor</b>	Alcoholic (Perceptible)
<b>Boiling Point</b>	169°C (Initial)
<b>Flash Point (Closed Cup)</b>	≥60°C
<b>Density</b>	0.850~0.880 g/ml, (@20°C)
<b>Freezing Point</b>	<-30°C
<b>Viscosity</b>	< 400 mPa·s, (@25°C, 50s <sup>-1</sup> )
<b>Solubility</b>	Immiscible in water Miscible with most organic solvents

The manufacturing process and quality control as well as provided quality control documents are strictly complied with ISO-9001 Quality Control Standard.

#### APPLICATION

Being thermally stable, FLEXIN-A-C can be used in almost all climatic conditions with a wide ambient temperature envelope ranging from -20 to +50°C.

FLEXIN-A-C is usually injected / pumped into pipelines by metering pumps at the discharge side of a boosting pump. 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.

#### PACKING

The standard packing for FLEXIN-A-C is a 1000L plastic container with protecting steel bar (IBC). Supply in other packing such ISO tanks can be offered upon request.

#### STORAGE AND HANDLING

FLEXIN-A-C will maintain stable and its potency for two years if stored in ventilated, dry place with a temperature range of -10C ~ +45°C in the tightly sealed container.

When handling FLEXIN-A-C, protective gloves and protective work clothing should be worn. Additional information concerning first-aid, firefighting measures, transport information and regulations is specified in the Material Safety Data Sheet, which is available upon request.

**IMPORTANT NOTE:** APPLY AGITATION TO PRODUCTS TO HOMOGENIZE IT BEFORE INJECTION BY COMPRESSED AIR, PUMP CIRCULATION OR BLENDING.

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