



## DRAG REDUCING AGENT

### FLEXIN-W

#### GENERAL INFORMATION

FLEXIN-W is a Drag Reducing Agent for water (referred to as Water DRA working in continuous water phase) applied to increase flow rate or to reduce pressure drop in the pipelines delivering water or media containing an amount of water in the form of continuous phase.

This product can be described as a modified starch cationic polymer dispersed in a water phase as a carrier.

#### PHYSICAL PROPERTIES

<b>Form</b>	Slurry
<b>Color</b>	Milky White
<b>Odor</b>	Slightly Aliphatic (Perceptible)
<b>Flash Point (Closed Cup)</b>	>63°C
<b>Density</b>	0.980~1.050 g/ml, (@20°C)
<b>Freezing Point</b>	<-10°C
<b>Viscosity</b>	< 1500 mPa·s, (@25°C, 100s <sup>-1</sup> )
<b>Solubility</b>	Miscible in water Immiscible 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-W can be used in almost all climatic conditions with a wide ambient temperature envelope ranging from -10 to +40°C.

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FLEXIN-W is usually injected / pumped into pipelines by metering pumps at the discharge side of a boosting pump. Drag reduction begins as soon as Water DRA starts to dissolve in the water phase being delivered. When dissolved Water 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. One of typical applications would be associated with inner-oilfield gathering pipelines and some offshore pipelines which usually transport oil-water mixture. In addition, to achieve comprehensive drag reduction or flow increase effect in these lines, Water DRA (FLEXIN-W) would be generally used in combination of oil DRA (FLEXIN-A).

#### PACKING

The standard packing for FLEXIN-W 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-W will maintain stable and its potency for two years if stored in ventilated, dry place with a temperature range of -10C ~ +40°C in the tightly sealed container.

When handling FLEXIN-W, 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.