



TECHNICAL DATA SHEET

PROPERTIES AND MODE OF USE

DRAGALOE™ is a sustainable drag reducing agent for use in transport systems of the oil and gas industry, which reduces the frictional pressure within the flow of a pipeline, helping to reduce the amount of energy lost in the formation of turbulence or eddies. It is specifically designed to improve the transport of light crude oils, refined products and gas.

DRAGALOE™ is a plant-based extract, is biodegradable, has no chemicals, toxic components or heavy metals, and comes from a plant that is a renewable material. **DRAGALOE™** is a proprietary formulation based on a blend of polysaccharides, enzymes and amino acids obtained from natural plants and preservatives.

The product offers various properties:

- It increases the performance in the transport of light crude oils, refined products and gas. Their natural polymers have an affinity with hydrocarbons and perform an excellent drag reduction task.
- It was designed to improve flows in pipelines with turbulent regime, since their polymer molecules acts as shock absorbers. It is a highly effective drag reducer in all pipelines with gas & light /medium crude.
- It increases the capacity of the flow in pipelines and improves their performance by reducing line pressure, without reducing pipeline capacity.
- Lower costs for less intermediate pumping stations. Its viscosity ensures a fast fluidity of the product, and reduces energy consumption since it minimizes drag in the pipeline.
- Provides thermal stability in high temperature environments like deserts and tropical areas.
- A green product, ecological, sustainable and friendly with the environment because it comes 99.8% from natural plant extracts. Free of hazardous chemical compounds
- Product does not generate bioaccumulation since it is totally natural, not made with synthetic chemicals
- Fully biodegradable in accordance to OECD 301
- Non-toxic product. Product does not affect aquifers, rivers, streams, reservoirs or water reservoirs. Easy disposal to sewage system.
- Reduces the environmental impact of the operations of the industry.
- Do not generate dirt or create risk of handling or safety hazards such as synthetic polymers.
- The product is manufactured using sustainable technologies.

INSTRUCTIONS OF USE

- The product is stable and can be applied with pumping equipment from 20 to 9,500 L/day
- It is applied like any other flow improver

TRANSPORTATION AND STORAGE CONDITIONS

Keep the product in a cool, dry place away from sources of heat, direct fire or sources of ignition. **DO NOT EXPOSE TO THE DIRECT SUN.** Recommended storage temperature: 20° C.

PRODUCT PRESENTATION: 20 Liter Jerrycan - 200 Liter Drum - 1,000 Liter tote.

DRAGALOE™

MANUFACTURER

Made in Mexico for Aloetrade America LLC
7676 NW 186th St, Ste 212, Miami, FL, 33015, USA

COMPOSITION

Proprietary formulation based on aloe extracts (Aloe Barbadensis Miller and Aloe Chinensis), chitosan and other natural polymers and extracts, preservatives.

PHYSICO-CHEMICAL CHARACTERISTICS

Appearance and color: light amber liquid.

Odor: characteristic vegetable.

PH: 3.6 / 4.6 - Flash point: N / A.

Relative Density: 1.005 to 1.010

Solubility in water: complete.

TOXICITY

- Non-toxic product.
- Not harmful for humans, nor plant species, animals or the aquatic world.
- Product does not affect aquifers, rivers, streams, reservoirs or water reservoirs.
- It is biodegradable according to OECD 301.
- Does not creates bioaccumulation.

DOSAGE

Dosage from 400 to 500 PPM.

The operation can be started with 500 to 1,000 PPM during 24-48 hours depending on conditions. Then, stabilize at the 400-500 PPM level.