



# TECHNICAL DATA SHEET

## PROPERTIES AND MODE OF USE

**ALOEFLOW HV™** is a sustainable flow improver specifically designed to improve the transport of heavy crude oils.

**ALOEFLOW HV™** 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.

**ALOEFLOW HV™** is a proprietary formulation made from long chain polysaccharides, enzymes, amino acids and anthraquinones obtained from aloe plants, which offer excellent mechanical properties, adequate viscosity, thermal stability and molecular weight similar to synthetic polymers.

The product offers various properties:

- Reduces viscosity of heavy crudes for lifting, processing, storage and transport.
- Increase the performance in the transport of heavy crudes.
- Their natural polymers have an affinity with hydrocarbons and perform an excellent drag reduction task
- Reduces the frictional pressure in the flow of a duct, and reduces the loss of energy by the formation of turbulence.
- The molecules of their natural polymers increase the capacity of the flow in pipelines transporting heavy oil.
- It improves performance since it reduces the pressure of the line, without reducing the capacity of the pipeline.
- Lower costs for less intermediate pumping stations.
- Its viscosity ensures a fast flow of the crude oil, and reduces the energy consumption by up to 60%.
- Provides thermal stability in high temperature environments like deserts, tropical and cold areas.
- Reduces corrosion levels up to 50%
- A sustainable product, because it comes 99.8% from natural plant extracts. Free of hazardous chemical compounds
- Reduces the environmental impact of the operations of the industry.

## 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.**

## ALOEFLOW HV™

### MANUFACTURER

Manufactured 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 1.030

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 create bioaccumulation.

## DOSAGE

Dosage depends on the type of crude oil and the characteristics of the production well. Dosage from 400 to 1,000 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.