



DATA SHEET

PROPERTIES AND MODE OF ACTION

ALOERECOVER™ - A green and eco friendly aloe based product for use in enhanced oil recovery (eor) methods using asp procedures in the oil and gas industry. a natural polymer designed to improve the chemical injection in the eor operations.

ALOERECOVER™ is a novel green product for use as natural polymer in the ASP (alkali, surfactant and polymer) method of Enhanced Oil Recovery in the oil and gas industry. It was developed to improve the chemical injection method in EOR.

ALOERECOVER™ is a new green polymer that offers the viscoelastic properties required by the process, while offering a solution to the scale formation issue, since our formulation inhibits scale formation and also inhibits corrosion.

ALOERECOVER™ is not susceptible of bacterial degradation as xanthan gum, since aloe has many antibacterial and antifungal properties. It is accepted that viscoelasticity of polymer solution flow is the main cause of the increase in oil displacement efficiency. Therefore, **ALOERECOVER™** is a perfect solution to increase viscoelasticity, providing antibacterial action and inhibiting scale formation, thus achieving excellent results in the EOR process using the ASP procedure.

The injection of **ALOERECOVER™** as a polymer solution increases the viscosity of displacing fluid and reduces the effective permeability to water. Microscopic displacement efficiency can be improved by injection of alkali and surfactant by several mechanism viz., reduction of the IFT, emulsification of oil and water, solubilization of interfacial films, wettability reversal, etc.

ALOERECOVER™ 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.

Properties

Natural polymer for use in Enhanced Oil Recovery - ASP method

It increases oil displacement efficiency

Our formulation inhibits scale formation and inhibits corrosion

Product is not susceptible of bacterial degradation

Biobased product containing material from natural resources

Green and environmentally friendly product

Reduces environmental impact

Readily biodegradable

Suitable for use at temperatures up to at least 150 C

Product does not affect aquifers, rivers, streams, reservoirs or water reservoirs. Easy disposal to sewage system

Suitable for use at high temperatures and high water hardness

ALOERECOVER™

MANUFACTURER

Made in Mexico for Aloetrade America LLC.

COMPOSITION

Proprietary formula based on aloe extracts, natural polymers, thickeners, preservatives and acidulant.

PACKAGING

Plastic drums 55 gal/200 L - IBC Tote bags 1.000 L

PHYSICOCHEMICAL CHARACTERISTICS

Appearance and color: liquid amber to dark green..

Odor: characteristic vegetable.

PH: 3.6 / 6 - Flash point: N / A.

Relative density: 1,005 to 1,030

Solubility in water: complete.

TOXICITY

- Non-toxic product.
- It is not polluting for humans, nor for plant, animal or aquatic world species.
- Product does not affect aquifers, rivers, streams, reservoirs or water tanks.
- It is biodegradable according to OECD 301.
- Does not generate bioaccumulation.

INSTRUCTIONS FOR USE

ALOERECOVER™ is a product developed for use as natural polymer in the ASP (alkali, surfactant and polymer) method of Enhanced Oil Recovery in the oil and gas industry and should be used as an environmentally friendly solution.

RECOMMENDED DOSE

ALOERECOVER™ is a product to be mixed with alkali and surfactant in the ASP method of Enhanced Oil Recovery. Depending on the formation, dosage may go from 2000 to 4500 PPM. If **ALOERECOVER™** is used without other polymer, we recommend 3500 to 4500 PPM dosage. If it is used with other polymer -xanthan gum, we recommend 1500 to 2000 PPM dosage.

Ideal dosage for the ASP formulation is to mix **ALOERECOVER™** as natural polymer, sodium carbonate (0.7% wt/wt) and any surfactant (2% wt/wt).

For further details please consult our Technical Dept.

STORAGE AND TRANSPORTATION CONDITIONS

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

PRODUCT PRESENTATION: 55 gal/200 L plastic drum. - IBC Tote bag of 1,000 L.

REMOVE CAP WHEN EXPOSED TO SUN OR OVER 25 C - AVERAGE TEMPERATURE TO STORE PRODUCT IS 20 C - SHELF LIFE: 12 MONTHS