



Technical Data Sheet

ICC-Asphahib, Asphalt Inhibitor

An **asphaltene inhibitor** is a chemical used in the oil and gas industry to remove asphaltenes from crude oil. Asphaltenes are the impurities found in crude oil that if not removed can choke refining equipment. Heavy crude oil contains solid asphaltene deposits during the production stage.

Generally, asphaltenes are a class of insoluble compounds that develop at high temperatures greater than 530 °C (986 °F). Some other compounds that asphaltene inhibitors address include heavy oils, resins and high molecular weight waxes.

Asphahib is an oil soluble, water dispersible mixture of surface active ingredients, co-solvent, dispersant and activated aromatic solvents, especially designed to disperse and prevent difficult asphaltene deposits.

Typical Physical Properties

CHARACTERISTIC	STANDARD	Test Method
Physical appearance	Dark Solution	----
pH (5% solution)	3	ASTM D-1172
Sp.Gr @25 °C (g/ml)	0.9±0.02	ASTM D-1298
Flash Point (°C)	>30	ASTM D-93
Boiling Point (°C)	>80	ASTM D-2887
Solubility in Oil	Soluble	----
Solubility in Water	Dispersible	----

Applications

- helps to remove the insoluble solid compounds from the crude oil
- helps to reduce asphaltene molecules from inside of different equipment



Recommended Treatment

The aromatic molecules in **Asphahib** attach to the asphaltene molecules and these results in the particles staying dispersed in a stable colloidal solution. The surface active ingredients increase the surface tension of the crude oil above the level where the asphaltene precipitations normally precipitate.

Asphahib will also dissolve present deposits and can be applied via continuous injection or regular batch treatment. **Asphahib** can be pumped straight from the tote or mixed with hydrocarbons. Circulating the fluid and allowing soaking time will increase the dissolving and removal of existing deposits. Using the product will allow the optimization of the volume and treatment interval.

Advantages

- Easy disperse and removes asphaltene deposits
- Prevention of asphaltene molecules being deposited inside production tubing
- Pipelines and production tubing stay clean
- More effective than old methods

Packing and Storage

Asphahib is packaged in 220 Li (Net) steel drums. Customized packaging is also available on request. Keep away from heat, sparks and open flames. Keep containers closed.

Shelf Life

Asphahib has shelf life of at least one year from the data of manufacture when stored in the original sealed containers in a cool and dry place.

Safety and Handling

Asphahib is safe when used according to directions. This product is a stable material and may be stored for 1 year. Do not take internally. Keep away from eyes, skin and clothing. Normal precautions in handling organic chemicals should be observed.