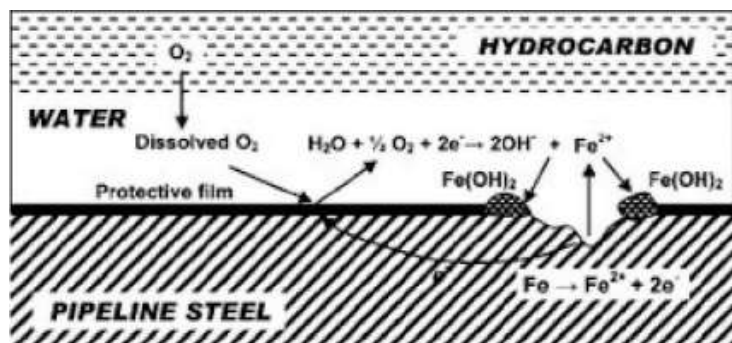


HP CORRMIT (WHITE OILS)

Pipelines are most convenient, efficient and economical mode of transporting petroleum products including white oils, natural gas, LPG etc. In India, pipelines have relieved the increasing pressure on the existing surface transport system (railways and roadways). Our country has a network of over 7,000 km long pipelines today and ever increasing by the day.

PIPELINE CORROSION



The equation "**Steel + Water = Corrosion**" is often used by corrosion engineers to express what occurs in oil and gas upstream operations.

Carbon steel is a material widely used by the oil and gas industry for pipelines. However, it comes with a serious downside: carbon steel freely corrodes when it comes into contact with water.

Unprotected pipelines, whether buried in the ground, exposed to the atmosphere, or submerged in water, are susceptible to corrosion. Without proper maintenance, every pipeline system will eventually deteriorate. Corrosion can weaken the structural integrity of a pipeline and make it an unsafe vehicle for transporting potentially hazardous materials. However, technology exists to extend pipeline structural life indefinitely if applied correctly and maintained consistently.

HP CORRMIT (WHITE OILS)

One of the methods used to control corrosion on pipelines are Corrosion Inhibitors

(CI), which extends the life of pipelines, prevent system shutdowns and failures, and avoid product contamination.

HP Corrmmit forms an impermeable layer and are designed for applications on metal surfaces retarding the effects of water, corrosive acid gases including H_2S & CO_2 .

APPLICATION

HP Corrmmit is a corrosion inhibitor injected into cross-country petroleum pipelines transporting Motor Spirit (Petrol), Superior Kerosene Oil (SKO), High Speed Diesel (HSD) & Naphtha etc. with a view to prevent internal corrosion.

It is designed to protect the quality of finished petroleum products and assure optimum corrosion protection for pipelines.

Preferred application of HP Corrmmit is directly into the fuel as far upstream as possible by means of a proportioning pump to assure maximum corrosion protection.

Dosage will vary depending upon the fuel from a minimum of 6 ppm to a maximum of 23 ppm in extreme cases.

PRODUCT BENEFITS

- Completely soluble and compatible with all white oils (MS, HSD, SKO etc.)
- Successfully reduce corrosion in flow lines, pipelines, production equipment and down-hole equipment
- Extend service life and equipment integrity
- Minimize unexpected failures that lead to lost production and increased costs.
- Improve safety and help protect the environment through the reduction of leaks.
- Performs well in multiphase systems, sweet and sour environments, and a wide range of temperatures.

STANDARDS & TESTINGS

- HP Corrmmit meets the requirement of testing as per NACE standard Test method NACE TM0172-2001 for relative effectiveness with minimum B++ rating.
- HP Corrmmit has been tested extensively in MDPL and found most suitable for CI applications.
- Compatible with the materials structure of the pipes, pumps, storage tanks, valves, meters, instruments and any other fittings used in petroleum pipeline.
- Compatible with other additives used in petroleum products like MFA, Lubricity improvers, Drag Reducer, etc.