

# COR FILM-O

## Corrosion Inhibitor

### Product Description

COR FILM-O is an oil-soluble, slightly water-dispersible, film-forming organic amine. It effectively protects the drillstring by forming a tough, persistent film on metal surfaces. It is compatible with all types of water-base muds, both weighted and unweighted. It is most applicable when severely corrosive conditions are anticipated, such as when utilizing air-drilling techniques, or in the presence of carbon dioxide or hydrogen sulfide gases.

### Typical Physical Properties

Physical appearance	Dark amber liquid
Specific gravity	0.83 - 0.88
Solubility in Water	Insoluble
pH (50% solution)	6.0 - 7.5
Flash Point	>149°F (> 65°C)

### Application

COR FILM-O can be applied to oil and gas process systems or pipelines to provide protection from corrosion under a wide variety of conditions, including harsh high temperature and sour conditions. It protects steel equipment by adsorbing onto surfaces, forming a filming barrier to corrosive conditions. The recommended application is to use periodic "slug" or "batch" treatments pumped down the drill pipe.

### Advantages

- Reduces the potential for corrosion in air, mist, foam or aerated mud drilling, and in all water-base muds
- Coats and protects the drillstring with a persistent amine film which can protect against carbon dioxide or hydrogen sulfide corrosion
- Temperature-stable and functional to temperatures of more than 300°F (149°C)

### Limitations

- Should not be used in packer fluids or other situations where the fluid will not be circulated

### Recommended Treatment

Recommended treatment is 5 to 15 gal (19 to 56.7-L) slugs of COR FILM-O while making up connections or every 4 hr, and prior to pumping the slug on trips. This slug volume should be selected to be about 1.5 to 2 gal (5.6 to 7.5-L) of COR FILM-O for each 1,000 ft (305 m) of drillstring.

In a gas systems or pipelines, treatment is typically at 0.25 - 0.5 litres per MMSCF gas. Batch treatments should be repeated at frequent intervals to maintain adequate protection and dose rate should be optimized based on an effective corrosion monitoring program.

### Toxicity and Handling

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Material Safety Data Sheet (MSDS).

### Packaging and Storage

COR FILM-O Corrosion Inhibitor is packaged in 55-gal (208-L) drums. Keep container closed. Store in a dry location away from sources of heat or ignition.

**Important Note:** These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and method of use of our product are beyond our control. We recommend that the prospective user determine the suitability of our material and suggestions before adopting them on a commercial scale.