

OLAID-CI-500

MORPHOLINE-TYPE CORROSION INHIBITOR

DESCRIPTION

OILAID-CI-500 is a water soluble neutralizing amine inhibitor designed to reduce corrosion in refinery overhead systems.

OILAID-CI-500 also helps reduce fouling of inorganic deposits associated with ammonium-type neutralizers. Its typical properties are as follows:

Appearance	Water White to Pale White Liquid
Specific Gravity	Approx. 1.010 at 60°F.
Flash Point	> 70 °C
Pour Point	-5 °C
Solubility	Soluble in Water

APPLICATION

OILAID-CI-500 protects against corrosion caused by local pitting. This often occurs in the overhead exchangers of distillation units where corrosion begins. Severe corrosion is possible at this point due to the low pH of the initial condensate (usually 1 to 2). OILAID-CI-500 will protect against corrosion by itself. It is usually run in that manner. However, in certain applications, it has a synergistic effect when used in conjunction with film forming inhibitors. In these situations, OILAID-CI-500 also allows these other inhibitors to function at lower doses than normally seen.

Another advantage to OILAID-CI-500 is that when neutralizing the corrosive, acidic condensate, this type of inhibitor combines with the mineral acids present to form a salt which has a much higher oil solubility than the fouling salts formed when ammonia-based neutralizers are employed.

OILAID-CI-500 is normally run through a positive displacement chemical pump. It should be fed into the system ahead of any existing areas where potential corrosion is a problem. In addition, OILAID-CI-500 may also be pumped into the crude charge in order to neutralize any condensate forming on the vessel walls, top trays, top of the atmospheric crude fractionator, or the overhead condensers. If this method is utilized to neutralize overhead condensers, the top tower temperature must be



270° F or greater.

The type and dosage of application of OIL AID-CI-500 will depend on the acid content of the particular system, the final condensate pH desired, and whether any other inhibitors are also being employed. It is highly recommended that a total corrosion monitoring system be initiated, but a typical dosage of 5 to 8 ppm will normally alleviate any problems encountered when the overhead water chloride content is below 100 ppm.

HANDLING

Prolonged skin contact may cause irritation. If possible, avoid contact with OIL AID- CI-500 and do not take internally. If contacted with eyes or skin, wash thoroughly with water for 15 minutes and seek medical attention. Remove contaminated clothing. Wear goggles, gloves, and an apron when handling OIL AID-CI-500.

PACKAGING

OIL AID-CI-500 is supplied in lined 55 gal steel drums, but may be supplied in weight required by the customer. The normal shelf life for this product (if stored properly, in a cool dry location) is approximately 24 months.

