



DG-LCI

PRODUCT BULLETIN

DG LCI is a multi-purpose water soluble corrosion/scale inhibitor designed to protect both iron and copper alloy surfaces. DG LCI protects metal surfaces from corrosion with filming inhibitors, and mineral scale deposits are effectively prevented even at elevated temperatures. DG LCI provides an economical approach to industrial and commercial cooling water treatment since the need for pH control with acid is normally eliminated. DG LCI has also proven highly effective in controlling corrosion and scale in anionic water based drilling mud systems. In areas where heavy metals are restricted by water quality standards, DG LCI provides effective control of corrosion and scale.

Product Benefits

- Non-pollution corrosion/scale inhibitor
- Protects both ferrous and copper alloy surfaces
- Water soluble

Physical Properties

Product Form	Dark Liquid
Flash Point TCC	53°F
Density LBS/GAL	9.49
Pour Point	-25°F

Consideration & Application

Cooling Water Systems:

DG LCI may be used in its neat form or diluted with soft water or ethylene glycol to any desired concentration. DG LCI should be added continuously into the system by means of a chemical injection pump or drip-feed device at a rate sufficient to maintain 50 to 100 ppm in the recirculating water. During the first several days of treatment, 200 to 300 ppm of DG LCI should be added to clean up the system and build a protective film of corrosion inhibitor. DG LCI is most effective in systems where the alkalinity of the cooling water is high enough to maintain a pH of 7.5-8.5.

Water Based Muds:

DG LCI should be batched directly into anionic water based drilling fluids at an initial rate of 5 gallons/100 Barrels followed by the addition of 2 gallons/100 Barrels once every 24 hours. Highly corrosive systems may require increased concentrations.

Air Mist Drilling:

DG LCI should be added to the make-up tank at the rate of 1/2 to 1-1/2 gallons per 10 barrels of mist water. DG LCI may be either batch treated or injected with a chemical pump on a continuous basis. Fluid pH



DG- LCI CONT'D

should be maintained between 7.5 and 8.5 with the use of caustic soda. Care should be experienced to avoid contact with skin or eyes.

Shipping & Handling

DG LCI is shipped in 55 gallon steel drums as a Corrosive Liquid, N.O.S. Do not store or use near sparks or open flame. Avoid contact with clothing or skin. If skin or eye contact does occur, flush exposed area with copious amounts of water. Material Safety Data Sheets are available upon request, or will be forwarded with the purchase of SG LCI.

Common Procedures

The most common procedure is to drop the specified number of sticks to be dropped from the chart each time an additional joint of drill stem is added to the drill string in the drilling operating. As the fluid moves down the hole the surfactants and friction reducer will dissolve and penetrate the drilling fluids and slick up the metal surfaces. It is important to add the desired volume of stick each time a new joint of drill stem is added to the string to maintain the slick film on the metal surfaces.

Product Packaging

Medium (1 1/4" x 15")	36/Box	72/Chest
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CAUTION: Avoid contact with eyes or skin. Wash thoroughly with water. Sticks should be stored in a cool dry place. *Always remove sticks from plastic bag or cardboard tube before using. Bag or tube can be used as a glove to avoid contact with hands.*