

## **TECHNICAL DATA SHEET**

### **ACID INHIBITOR 630(H)**

#### **AN INHIBITOR FOR USE WITH HYDROCHLORIC ACID.**

Acid Inhibitor 630(H) is a organic liquid corrosion inhibitor formulated for inhibiting attack of hydrochloric acid on iron, steel, copper and brass during cleaning operations.

Acid Inhibitor 630(H) is supplied as a clear liquid that is added to acid solutions in the concentrating range from 0.1% - 0.3% volume in Hcl. The average concentration used is 0.2 % of the volume of the hydrochloric acid mixture.

For example, every 1,000 liters of pickling solutions, 2 liters of Acid Inhibitor 630(H) are used.

#### **INHIBITING ACTION:**

The inhibiting action of Acid Inhibitor 630(H) in the common mineral acids is very high. In hydrochloric acid inhibiting action in both dilute and concentrated solutions at temperatures from room up to 65°C is of the order of 95 to 99 % depending upon temperature. At room temperature the inhibiting action in many cases is above 99% and in concentrated acid at 65°C inhibiting efficiency as high as 95 % may be obtained. Acid Inhibitor 630(H) can also be used for cleaning pipe systems in boilers.

#### **MAINTENANCE:**

0.25% – 0.5 % of Acid Inhibitor 630(H) should be added for every Kg of hydrochloric acid addition.

#### **REMOVAL OF ACID INHIBITOR 630(H):**

The use of inhibitors in acids in plating cycles is not normally recommended, because they get strongly adsorbed on metal surfaces. Cleaning with alkali cleaners will remove any traces of adsorbed Acid Inhibitor 630(H).

**CONTROL:**

There is no analytical control for Acid Inhibitor 630(H). It is normally used in concentration of 0.2% by volume of the acid mixture.

**CAUTION:**

Care should be taken while adding Acid Inhibitor 630(H) to concentrated acids or diluted acids at elevated temperature as fuming/ foaming may occur.

**WASTE TREATMENT:**

Pickling and industrial cleaning bath is acidic and should be neutralized prior to discharge into the sewer.

**DISCLAIMER:**

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