

## TECHNICAL DATA BULLETIN

# RODINE 130

## 1. INTRODUCTION

**Rodine 130** is a powdered chemical designed to inhibit the attack of sulphamic, citric, tartaric, oxalic and sodium acid sulphate solutions on mild steel, stainless steel, copper and brass during industrial cleaning and descaling operations such as:-

- (a) Chemical cleaning of boilers.
- (b) Shipboard chemical cleaning of seawater evaporators, heat exchangers and Butterworth heaters.
- (c) Chemical cleaning of pasteurisers, preheaters, evaporators and storage vats.
- (d) Chemical cleaning of vacuum pans and evaporators in sugar mills.

## 2. METHOD OF USE

### (a) Make up

For each 100 kg of dry powdered acid, irrespective of bath dilution, add 1.5 kgs **Rodine 130**.

**Rodine 130** can be mixed with any of the above acids and stored; or it can be added to the dissolved acid solution as a slurry in water.

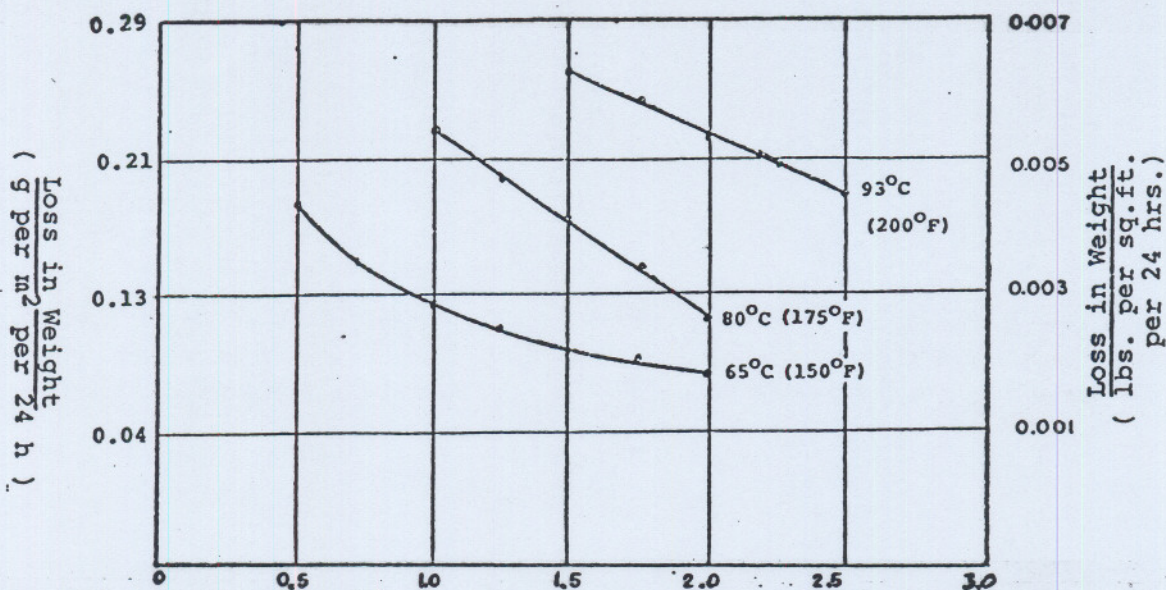
### (b) Cleaning

- (i) The dilute acid, inhibited with **Rodine 130**, is best circulated through the equipment to be cleaned. When the circulation cannot be accomplished, the equipment should be filled with the inhibited acid and sufficient time allowed for the acid to remove the objectionable deposits.
- (ii) If heating of acid or equipment is desired to speed the operation, it should be done prior to the cleaning. Equipment may be preheated by circulating hot water through it. The preheated water is then discarded and the equipment immediately charged with the pickling solution.
- (iii) Samples of the deposit to be removed can often be checked in the laboratory prior to cleaning in order to approximate more accurately the proper acid concentration, exposure time and temperature necessary for optimum cleaning efficiency.



### 3. CORROSION DATA

The graph shows the comparative weight loss for various concentrations of Rodine 130 in a 6% by weight sulphamic acid solution at three temperatures.



Kilograms of Rodine 130 per 100 kgs of Sulphamic Acid or Sodium Acid Sulphate.

Acid Concentration	6% by weight Sulphamic Acid (or Sodium Acid Sulphate)
Test Metal	1010 hot rolled steel
Duration of Test	6 hours
Temperatures	As shown on curves

### 4. HANDLING INSTRUCTIONS

Avoid skin contact with Rodine 130 powder and avoid inhaling the dust.

### 5. HENKEL PRODUCT REFERENCE

Rodine 130



**DISCLAIMER**

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