

BONDERITE S-AD 3305

ACID INHIBITOR

(KNOWN AS RODINE 3305)

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1. Introduction:

BONDERITE S-AD 3305 (known as RODINE 3305) is a low viscosity liquid, non-foaming* inhibitor for use in hydrochloric acid continuous or batch type pickling operations. BONDERITE S-AD 3305 (known as RODINE 3305) provides a high degree of metal protection; aids in reducing acid consumption, especially during long line stoppage, and will not impede or reduce the rate of scale removal. It is very effective in producing a clean, bright pickled surface. BONDERITE S-AD 3305 (known as RODINE 3305) is a high performing, yet economical inhibitor.

BONDERITE C-AD FUME-GO (known as ANO-FUME-GO) is a specially formulated "Accelerator" additive to be added to the pickling bath to increase penetration of acid solution into the cracks of the scale layers. In applications when a "Breaker Bar" is used, the addition can reduce the pickling time as much as 50%.

*Foaming of the solution is likely with the use of BONDERITE C-AD FUME-GO (known as ANO-FUME-GO).

2. Materials:

BONDERITE S-AD 3305 (known as RODINE 3305)
Hydrochloric Acid (up to 37% wt/wt)
BONDERITE C-AD FUME-GO (known as ANO-FUME-GO)

3. Build-up:

BONDERITE S-AD 3305 (known as RODINE 3305) should be used in amounts ranging from 0.02 up to 1.00 percent or more by volume based on the concentrated hydrochloric acid used (before dilution to use concentration). Performance data under prolonged use and varying iron levels for various concentrations, as well as direct comparative performance of several competitive inhibitors is available for determining the optimal concentration for each location.

BONDERITE C-AD FUME-GO (known as ANO-FUME-GO): should be used in amounts ranging from 0.01 up to 0.05 percent in the diluted hydrochloric acid solution.(as use pickling bath) Please note foam may be generated from the addition of the BONDERITE C-AD FUME-GO (known as ANO-FUME-GO) to the acid bath.

4. Operation:

BONDERITE S-AD 3305 (known as RODINE 3305) is both water and acid soluble at ambient and pickling temperatures, and can be added to the pickling solution or to concentrated acid without regard to temperature. It is effective at all pickling temperatures.

In continuous strip pickle lines where the acid (minus inhibitor) is added continuously, BONDERITE S-AD 3305 (known as RODINE 3305) should also be added continuously. BONDERITE C-AD FUME-GO (known as ANO-FUME-GO) should also be added whenever acid is added to the tank.

BONDERITE S-AD 3305 (known as RODINE 3305) may, if desired, be added to the concentrated hydrochloric acid in the storage tank to eliminate continuous additions.

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BONDERITE S-AD 3305 (known as RODINE 3305) will freeze at 8° Fahrenheit. Freezing is not detrimental, but will cause a slight separation. If frozen, allow to thaw, and then mix before using. Avoid excessively high temperatures in storage (i.e. >100° Fahrenheit).

6. Waste Disposal Information:

Applicable regulations concerning disposal and discharge of chemicals should be consulted and followed.

Disposal information for BONDERITE S-AD 3305 (known as RODINE 3305) is given on its Material Safety Data Sheet.

The pickling bath is acidic and contains organic inhibitor components.

The pickling bath and/or sludge can contain ingredients other than those in the chemical as supplied and analysis of the solution and/or sludge is required before waste treatment and disposal.

7. Precautionary Information:

Before handling the chemical products used in the process, the first aid and handling recommendations on the Material Safety Data Sheet for the product should be read, understood and followed.

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