## **BONDERITE** BONDERITE S-AD 3305-C ACID INHIBITOR ADDITIVE

# Technical Process Bulletin BONDERITE<sup>®</sup> S-AD 3305-C ACID INHIBITOR ADDITIVE

This Revision: 05/07/2016

### 1. Introduction:

BONDERITE® S-AD 3305-C ACID INHIBITOR ADDITIVE is a low viscosity liquid, non-foaming\* inhibitor for use in hydrochloric acid continuous or batch type pickling operations. BONDERITE® S-AD 3305-C 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-C is a high performing, yet economical inhibitor.

2. Materials:BONDERITE® S-AD 3305-CHydrochloric Acid (up to 37% wt/wt)

### 3. Build-up:

BONDERITE® S-AD 3305-C 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.

#### 4. Operation:

BONDERITE® S-AD 3305-C 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-C should also be added continuously.

BONDERITE® S-AD 3305-C may, if desired, be added to the concentrated hydrochloric acid in the storage tank to eliminate continuous additions.



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5. Storage Requirements:

BONDERITE® S-AD 3305-C will freeze at 8° Fahrenheit. Freezing is not detrimental, but will cause a slight separation. If frozen, allow to thaw, 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-C 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.

