

BONDERITE® S-AD 85

Known as Rodine® 85
September 2023

Product description

BONDERITE® S-AD 85 provides the following product characteristics:

Technology	Industrial cleaner
Product type	Acid inhibitor
Application	Pickling

BONDERITE® S-AD 85 is a soluble, low foaming, liquid inhibitor formulated for use in conventional sulfuric acid pickling operations. BONDERITE® S-AD 85 is effective on any type of steel and can be used at any acid concentration.

BONDERITE® S-AD 85 is an effective inhibitor for phosphoric and acetic acids, as well as sulfamic, citric, oxalic, and sodium bisulfate solutions in pickling and industrial cleaning operations.

Direction for use

Preliminary statement:

Prior to use it is necessary to read the **Material Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

Bath make-up:

The amount of BONDERITE® S-AD 85 required to provide the maximum degree of protection will vary with the type of metal being pickled or cleaned, the temperature and the specific pickling or industrial cleaning sequence. The recommended amount of BONDERITE® S-AD 85 to be used for pickling is always given in percent by volume of the concentrated acid, regardless of the degree of acid dilution used. The following guide shows the correct amount of BONDERITE® S-AD 85 to use for the specific pickling and/ or industrial cleaning sequence.

For pickling of mild and low carbon steels:

For pickling temperatures below 82 °C, use BONDERITE® S-AD 85 at 1/8 to 1/2 percent of volume of the concentrated sulfuric acid. For pickling temperatures above 82 °C, use BONDERITE® S-AD 85 at 1/4 to 1/2 percent of volume of the concentrated sulfuric acid.

For pickling of alloy and more reactive steels:

The usual pickling temperature for alloy and more reactive steels is below 82 °C. It is recommended that BONDERITE® S-AD 85 be used in amounts ranging from 3/8 to 1/2 percent by volume of the concentrated sulfuric acid.

Operating data:

BONDERITE® S-AD 85 should be used at a concentration ranging from 0.05 to 3.0 percent by volume of the diluted acid regardless of the degree of acid dilution used. In addition, it is recommended that BONDERITE® S-AD 85 inhibitor be used at a concentration not less than 1 % by volume of the concentrated liquid acid or not less than 1 % by weight of the concentrated solid acid, regardless of the temperature of the industrial cleaning operation.

Remarks:

Because of its good solubility, BONDERITE® S-AD 85 may be added to tap water, dilute acid or concentrated acid at room temperature. It is effective at all temperatures up to 105 °C. Note: Caution must be used when adding BONDERITE® S-AD 85 to concentrated acids or the diluted acids at elevated temperatures, as fuming and/or foaming may occur. In continuous strip lines, where water and acids are added continuously, BONDERITE® S-AD 85 should be added continuously. In batch pickling operations, BONDERITE® S-AD 85 should be added each time acid is added. If desired, the BONDERITE® S-AD 85 addition may be omitted at the time of the last acid addition prior to discarding the used bath.

Disposal:

Applicable regulations concerning disposal and discharge of chemicals should be consulted and followed. Disposal information for the chemicals in the form as supplied, is given on the Material Safety Data Sheet for each product. The pickling and industrial cleaning bath is acidic and contains organic Rodine inhibitor components. The pickling and industrial cleaning bath and 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.

Precautions:

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.

Classification:

Please refer to the corresponding **Material Safety Data Sheets** for details on:

Hazardous Information
Transport Regulations
Safety Regulations

Storage:

BONDERITE® S-AD 85 will freeze at -40 °C. Freezing is detrimental to the product. It is recommended that BONDERITE® S-AD 85 be stored indoors where the temperature will never fall below 0 °C.

Additional information

Disclaimer

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

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