

BONDERITE S-AD 213

Known as Rodine A 213
July 2022

PRODUCT DESCRIPTION

BONDERITE S-AD 213 provides the following product characteristics:

Technology	Industrial Cleaner
Product Type	Inhibitor for acids
Application	Mineral acids, e.g. HCL

BONDERITE S-AD 213 is a liquid, cationic inhibitor especially designed to inhibit the attack of hydrochloric acid on iron, steel, copper and brass during industrial cleaning operations. It also inhibits the attack of hydrofluoric acid.

BONDERITE S-AD 213 has a strong inhibiting effect and prolongs the pickling time only insignificantly.

DIRECTIONS 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:

For each 1,000 L of bath volume add to the agitated bath 0.5 to 5.0 kg of BONDERITE S-AD 213.

Operating Data:

Temperature °C < 90
Treatment Time As required

Bath Replenishment:

(Not applicable to cleaning and descaling solutions).

When the pickling bath is replenished with concentrated acid, also the proportion of BONDERITE S-AD 213 has to be supplemented.

For each 100 kg of concentrated pickling acid add BONDERITE S-AD 213: 0.5 to 2.0 kg = approx. 0.5 to 2.0 L

Special Remarks:

The proportion of BONDERITE S-AD 213 has no influence on the sewage water treatment of the pickling acid.

When the COD – values are too high a treatment with charcoal is recommended.

This product is a preparation, which must be labelled according to the hazardous materials regulation dated October 1992. Read the safety information on the product label.

Classification:

Please refer to the corresponding **Material Safety Data**

Sheets for details on:

Hazards identification
Transport information
Regulatory information

Storage:

Recommended Storage Temperature, °C 5 to 25

Shelf-life, months
(in unopened original packaging)

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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