

**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      &lt; 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**

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