

BONDERITE C-IC 172 UH

Known as Deoxidine 172 UH
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PRODUCT DESCRIPTION

BONDERITE C-IC 172 UH provides the following product characteristics:

Technology	Industrial Cleaner
Product Type	Acidic Cleaner
Application	Derusting, Descaling

The removal of calcareous residues formed by precipitations of alkali salts on the exchangers inside the spraying devices in the surface-treating facilities must be conducted periodically.

In fact, the build-up of these residues considerably reduces thermal exchanges, thus increasing heating discharges, circuit and spray nozzle obstruction, compromising the regularity and quality of the treatment.

This removal must be performed in accordance with the water hardness, the relevance of the evaporation during work, the installation level of maintenance - at least once a year and, usually, biannually.

BONDERITE C-IC 172 UH is an acid and liquid composition, with a built-in attack inhibitor that protects the installation during the de-scaling operation.

The product is suitable for de-scaling alkaline or acid stages (phosphating) in surface-treating facilities. Eventually, BONDERITE C-AD C 68 can be adapted (when bath temperature is at 40°C) to accelerate the process.

TECHNICAL DATA

Appearance	slightly yellow, transparent liquid
Density at 20°C	1.41
pH of pure product	below 1

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.

Application:

Alkaline stage:

Concentration:	spraying: 5 to 15% immersion: 10 to 20%
Temperature:	max. 55°C

Contact time:	4 to 12 h
Washing cycles:	2 washes with industrial water 1 wash with alkaline product to neutralize the excess of acid

Finish this cleaning stage with water.

Acid stage:

Concentration:	spraying: 3 to 5% immersion: 5 to 10%
Temperature:	max. 60°C
Contact time:	4 to 6 h

Wash generously with industrial water.

Precautions:

After product implementation and during its use, routine safety measures shall be taken when using chemical products, gloves, safety glasses and aprons should be used.

For immersion treatment, make sure that tanks or baths are of stainless steel or synthetic resin (PVC, polyethylene).

Process to Follow in Case of Spraying Tunnel:

- Tank draining.
- Careful drainage with pressure. Sludge is removed.
- Nozzle disassemble (to clean them, put them in a small tank with a 15 or 20% BONDERITE C-IC 172 UH water solution). The tank can be of lead or PVC.
- Maintain immersion nozzles until full de-scaling, and shake from time to time to dilute scaling.
- Bath hose can be de-scaled in the same way.
- Fill bath with water in the spraying stages.
- Add BONDERITE C-IC 172 UH. For this operation, please wear gloves, glasses, apron and boots.
- Homogenize by agitating the de-scaling solution. Bring to 50 to 60 °C temperature. Start the pumps and let them recirculate until full de-scaling; usually, between 4 and 12 hours.
- Drain baths. Proceed with manual cleaning of internal tunnel walls and their accessories (chain covers, etc.).
- Proceed with several washings by circulating running water until neutral pH is reached.
- Drain the water.
- Put nozzles in places and position them correctly.
- Wash bath and its accessories again.

Until installation is completely washed, proceed with a final washing with a solution of the products to be used in each stage. The solution will be emptied before making up baths to their definite concentration.

Bath Control:

- Take 5 mL of product solution in a flask and dilute to 100 mL using distilled water.
- Add some drops of methyl orange indicator.
- Sample will turn red.
- With a burette previously filled up to "0" add 1 N sodium hydroxide solution until color changes into yellow.
- For a new bath made up at 10% (v/v), pointage shall be 4.15 mL.

Storage:

Recommended Storage Temperature	0 to 40°C
Shelf-life, months	24
Frost-Sensitive	yes

Handling entails certain risk at temperatures below -5°C (since polyethylene breaks at -5°C).

Classification:

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

Hazards identification
Transport information
Regulatory information

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