

BONDERITE® C-AK 2807

Known as AQUENCE 2807 CLEANER
January 2024

Product description

BONDERITE® C-AK 2807 provides the following product characteristics:

Technology	Alkaline cleaner
Product type	Liquid alkaline cleaner
Application	Metal pretreatment

BONDERITE® C-AK 2807 is a concentrated liquid, non-silicated, alkaline immersion cleaner for ferrous metals. The solution is used to remove a variety of soils, oils and forming lubricants from steel prior to the application of auto deposited coatings. BONDERITE® C-AK 2807 exhibits excellent bath life, good scale inhibition and prevents soil re-deposition. It is easily controlled and can be automatically metered and monitored electronically.

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.

Equipment:

The process tank, housing, pumps and piping for use with this solution may be constructed of mild steel. The heat exchanger plates should be polished 316 stainless steel. If gas fired burner tubes are used, they should be made of schedule 80 mild steel pipe or equivalent. All process circulating pump seals, valve seats and other elastomers which come in contact with the working process solution should be PTFE. FKM may be used but its life will be shorter. EPDM elastomers should be avoided.

Automatic process control equipment, which promotes consistent quality and controlled costs, is available for automatically controlling this process. Auxiliary equipment, which is engineered and specified for this process, include air operated chemical transfer pumps, chemical metering pumps, reliable level controls, solenoid valve assemblies and bulk storage tanks. All chemical pump seals, valve seats and other elastomers which come in contact with the concentrated solution can be PTFE or CSPE.

Our sales representative should be consulted for information on Henkel Surface Technologies automatic process control equipment for this process and any additional questions. For additional information on equipment, please consult your local sales representative.

Operating data:

Free alkalinity, points (ml)	5.4 to 20.4
Time, minutes immersion	1 to 5
Temperature, °F	140 to 180

Bath make-up per 100 gallons

BONDERITE® C-AK 2807 , gallons	4 to 15
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1. Fill the tank about 2/3 full with cold water.
2. A typical cleaning solution is prepared by adding 5 gallons (19 liters) of BONDERITE® C-AK 2807 chemical for each 100 gallons of operating volume.
3. Add water to the operating level, stir thoroughly and heat to the operating temperature.

The initial charge and replenishment data contained herein are normal for most installations; however, our technical representative may suggest a deviation from this data if indicated by local conditions. If the work is heavily soiled and additional cleaning power is needed, increase the cleaner bath concentration as desired up to 15%.

Bath control:

Never pipet by mouth, use a pipet filler.

Free alkalinity:

1. Pipette 5 ml bath into a 150 ml beaker.
2. Add approximately 20 ml of distilled water.
3. Add 5 drops of Indicator 3.
4. Titrate with Titrating Solution 61 until one drop discharges the last of the pink color.
5. The ml of Titrating Solution required indicates the concentration (free alkali) in points.

The concentration may be calculated from the following equation:

$$\text{Gal (\% v/v) BONDERITE® C-AK 2807 per 100 gal} = \text{points} \div 1.36$$

Maintain the concentration within ± 0.2 point of the value found to give best results.

To increase concentration 1 point: Add 3/4 gallon of BONDERITE® C-AK 2807 chemical per 100 gallons. If desired, the concentration may be obtained from the following table:

Concentration gal per % by Henkel BONDERITE® C-AK 2807 :

100 gal	Volume	Points
4	4	5.4
5	5	6.8
6	6	8.2
7	7	9.5
10	10	13.6
15	15	20.4

Waste disposal information:

Applicable regulations covering disposal and discharge of chemicals should be consulted and followed. Disposal information for the chemical, in the form as supplied, is given on the Material Safety Data Sheet for the chemical. The processing bath is alkaline and contains phosphate. Waste treatment and/or neutralization of rinse water or processing solution may be required prior to discharge to the sewer. (Refer to Waste Treatment Information Bulletin WT1007, available on request). The cleaning solution and sludge can contain ingredients other than those present in the chemical as supplied and analysis of the solution and/or sludge may be required prior to disposal.

Precautions:

When handling the chemical product used in this process, the first aid and handling recommendations on the Safety Data Sheet for the product should be read, understood and followed. The processing bath is alkaline and can cause irritation of the skin and eyes.

Do not get in eyes, on skin or on clothing. In case of contact, follow the recommendations on the Material Safety Data Sheet for BONDERITE® C-AK 2807 .

Classification:

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

Transport Regulations
Hazardous Information
Safety Regulations

Storage:

BONDERITE® C-AK 2807 is a liquid product which must be protected from freezing. Opened containers should be kept closed when not in use.

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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Reference 1

Henkel AG & Co. KGaA
40191 Düsseldorf, Germany
Phone: +49-211-797-0

Henkel Corporation USA
Madison Heights, MI 48071
Phone: +1-248-583-9300

Henkel (China) Co. Ltd.
201203 Shanghai, China
Phone: +86.21.2891.8000

For more information, please contact us on www.henkel.com