

BONDERITE C-AK 909

July 2017

PRODUCT DESCRIPTION

BONDERITE C-AK 909 provides the following product characteristics:

Technology	Industrial Cleaner
Product Type	Alkaline Cleaner
Application	Metal Cleaner

BONDERITE C-AK 909 is a moderately alkaline cleaner, specially formulated for the degreasing of strongly soiled metal surfaces, without attack on these surfaces.

BONDERITE C-AK 909 is suitable for the treatment of all metals: steel, copper, zinc, aluminium, stainless steel, titanium, etc.

BONDERITE C-AK 909 is used in all processes of surface preparation before a chemical or an electrolytic treatment:

- chemical conversion coating before painting
- chemical or electrolytic deposit
- cleaning before welding
- metal brightening
- etc.

BONDERITE C-AK 909 solutions are applied by soaking or by immersion with ultrasound.

TECHNICAL DATA

Appearance	powder
Color	white/ cream
Solubility in water	easy
pH-value (of a 10 g/L solution)	~12.5

Strong chelating and surface tension reducing properties. Product contains alkaline salts, without caustic soda.

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.

Operating Parameters:

Degreasing by immersion:

Concentration:	40 to 80 g/L
Temperature:	50 to 90 °C
Contact time:	5 to 15 min

Some bath agitation, e.g. by compressed air, is recommended to get fresh bath solution in contact with the treated surface.

Too strong agitation may lead to foam in the bath.

Degreasing by ultrasound:

Concentration:	20 to 40 g/L
Temperature:	50 to 80 °C
Contact time:	2 to 5 min

Note:

The operating parameters can be modified according to the nature and the quantities of soils to be removed and the treated metal composition.

Our Technical service will recommend suitable bath parameters.

The optimum bath conditions for Aluminium alloys have to be identified.

Equipment:

Mild steel or stainless steel are suitable for the tank and heater constructions.

Aluminium or copper alloy must not be used for that.

A mist captation system is advisable.

Bath Control:

Titrate 50 mL of bath solution (cooled down) with 1N hydrochloric acid with methyl orange as indicator.

The color will change from yellow orange to red.

BONDERITE C-AK 909 concentration (g/L) = 7.2 x used mL 1N acid

Replenishment:

The concentration of the BONDERITE C-AK 909 bath has to be maintained by product additions.

A 50 g/L bath has a total alkalinity of approx. 7 points.

To increase the total alkalinity by 1 point, add 720 g/L of BONDERITE C-AK 909.

Effluent Information:

According to the local regulation.

Storage:

Recommended Storage Temperature 0 to 40°C
 Shelf-life, months 24
 (in unopened original packaging)

Classification:

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

Sheets for details on:

Hazards identification
Transport information
Regulatory information

ADDITIONAL INFORMATION**Disclaimer****Note:**

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.

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