

BONDERITE C-AK LL-92

October 2017

PRODUCT DESCRIPTION

BONDERITE C-AK LL-92 provides the following product characteristics:

Technology	Industrial Cleaner
Product Type	Alkaline Cleaner
Application	Parts Cleaning

BONDERITE C-AK LL-92 is a predominantly alkaline liquid product, composed mainly of alkalinizing, complexing and anti-foaming agents.

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:

BONDERITE C-AK LL-92 is mainly used for the hot cleaning and degreasing of aluminum parts and alloys, while simultaneously creating a mild attack on the surface (etching).

It may be used in spray or immersion processes.

BONDERITE C-AK LL-92 degreases aluminum surfaces until absolute wetness is achieved, leaving the surface ready for subsequent treatment.

After degreasing, rinsing with water is necessary to eliminate inorganic residues.

Operating Parameters:

The concentration of BONDERITE C-AK LL-92 depends on the type of application and degree of filth to be removed.

The general application is as follows:

	SPRAY	IMMERSION
Concentration:	5 to 20 g/L	20 to 60 g/L
Time:	1 to 3 min	1 to 3 min
Temperature:	50 to 85 °C	50 to 85°C

Bath Control:

To measure the concentration of the titration coating, take a sample of 25 mL of the solution, to which add 3 drops of phenolphthalein indicator, then titrate with 0.5 N hydrochloric acid, until change of the indicator appears in the acid test, record the consumption in mL and indicated as Titration A.

Then, add 4 to 6 grams of sodium fluoride to the same solution and stir until it becomes bright red.

Repeat the titration with 0.5 N hydrochloric acid, until a new change of the indicator appears in the acid test, record the consumption in mL and indicated as Titration B.

Calculations:

In order to determine the concentration of BONDERITE C-AK LL-92 in grams per liters, calculate as follows:

$$0.98 \times (3A - B)$$

Where B value multiplied by 0.18 equals the concentration of dissolved aluminum in grams per liter.

General Remarks:

These are general instructions applicable to most scenarios. However, working conditions may vary from one facility to another.

If there are special conditions, our Technical Service will advise you on the correct approach for each particular situation.

BONDERITE C-AK LL-92 is an alkaline product. Handling requires compliance with the appropriate safety rules and regulations (wearing rubber gloves, safety goggles, etc.)

Storage:

Recommended Storage Temperature	5 to 40°C
Shelf-life, months (in unopened original packaging)	24

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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