

BONDERITE C-AK CW

Known as P3-upon CW
October 2016

PRODUCT DESCRIPTION

BONDERITE C-AK CW provides the following product characteristics:

Technology	Industrial Cleaner
Product Type	Alkaline Cleaner
Application	Determination of coating weight of a phosphate layer
Concentration	100 %
Operating Temperature	40°C

BONDERITE C-AK CW consists of an alkali hydroxide, a complexing agent and an amine.

It is a Cr-free solution ready to use for measuring the coating weight of the phosphate layer formed on bare or coated steel.

TECHNICAL DATA

Appearance clear, colourless liquid
Density at 20°C, DIN 51757 1.08 g/cm³
pH-value (in a solution of 10 g/L) 13.0

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 data:

The panel must be clean and dry.

If not, remove dust with pressured air, put it in the oven at 80 °C for 10 min and then in the desiccator for 20 min to let it cool while it stays dry.

Weigh the panel.

We note « m1 », the mass (in grams) before attack.

In a 5 L beaker, heat the BONDERITE C-AK CW solution at 40°C (± 2°C) under stirring.

Stop the stirring and put the panel into the solution at 40°C for 40 sec (± 2 sec).

Take the panel out of the solution and rinse both sides with tap water, DI water and then ethanol.

Dry it with pressured air and weight it.

We note « m2 », the mass (in grams) after attack.

In the case where several coating weights have to be measured, turn on the stirring between each dissolution.

The coating weight (g/m²), mass per surface unit, is:

$$CW = \frac{m1-m2}{S}$$

We note « S », the panel surface in m².

Caution:

Do not use the same solution for bare and coated steel, otherwise it would make the solution unusable because of precipitation.

Take one beaker for bare steel only and another one for coated steel only.

It is recommended to cover the solution and to avoid heating when the solution is not used.

It is necessary to readjust the level in the beaker with the solution ready to use.

The solution may become light yellow after few panels.

The solution must be renewed either after 2 m² of panel or after one month of use.

Storage

Recommended Storage Temperature, °C 0 to 50
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.

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.

In case products are delivered by Henkel Belgium NV, Henkel Electronic Materials NV, Henkel Nederland BV, Henkel Technologies France SAS and Henkel France SA please additionally note the following:

In case Henkel would be nevertheless held liable, on whatever legal ground, Henkel's liability will in no event exceed the amount of the concerned delivery.

In case products are delivered by Henkel Colombiana, S.A.S. the following disclaimer is applicable:

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. 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.

In case products are delivered by Henkel Corporation, Resin Technology Group, Inc., or Henkel Canada Corporation, the following disclaimer is applicable:

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

Trademark usage

Except as otherwise noted, all trademarks in this document are trademarks of Henkel Corporation in the U.S. and elsewhere. ® denotes a trademark registered in the U.S. Patent and Trademark Office.

Reference 0.0