

BONDERITE C-AK 6443Known as P3-upon 6443
January 2020**PRODUCT DESCRIPTION**

BONDERITE C-AK 6443 provides the following product characteristics:

Technology	Industrial Cleaner
Product Type	Alkaline Cleaner
Application	Parts Cleaning
Concentration	20 to 100 g/L
Operating Temperature	50 to 80°C spray and immersion process 80 to 90°C derusting process

BONDERITE C-AK 6443 is a liquid alkaline cleaner, suitable for cleaning, derusting and dephosphating of steel. It is composed of alkalines and salts of organic acids.

Application Areas:

BONDERITE C-AK 6443 can be used to remove pigment residues, thin rust- and phosphate layers from steel and cast iron parts in spray and immersion processes. A good degreasing efficiency is reached by addition of a surfactant, for example BONDERITE C-AD 5003.

BONDERITE C-AK 6443 can be used to remove pigment residues, thin rust- and phosphate layers from steel and cast iron parts in spray and immersion processes. A good degreasing efficiency is reached by addition of a surfactant, for example BONDERITE C-AD 5003.

TECHNICAL DATA

Appearance	brown liquid
Density at 20°C, DIN 51757	1.29 g/cm ³
pH-value (in a solution of 10 g/L)	13

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.

Bath Make-up:

Add the required amount carefully to the circulation system. Depending on the process, it may be necessary to add surfactant.

Concentration for degreasing and phosphating:

in immersion process	30 to 100g/L
in spray process	30 to 80 g/L

Concentration for derusting:

immersion / spray process	200 to 600 g/L
---------------------------	----------------

Operating Data:

Temperature	
for spray and immersion process	50 to 80 °C
for derusting	80 to 90 °C
Duration of treatment	5 to 60 min

Bath Monitoring:

BONDERITE C-AK 6443 solution is controlled by total alkalinity

Feed, mL	50 mL
Titrant:	0.5 N hydrochloric or 0.5 N sulphuric acid
End point:	pH 3.6
Indicator:	Methyl orange
Titration factor (TF):	1.7

- Pipette 50 mL bath solution into a clean 300 mL Erlenmeyer-flask.
- Add 3 to 5 drops of indicator.
- Titrate the solution with 0.5 N hydrochloric or 0.5 N sulphuric acid.
- The endpoint will be shown by a colour change from orange to red (pH: 3.6).
- the added mL of 0.5 N hydrochloric or 0.5 N sulphuric acid multiplied by the factor TF 1.7 give the concentration in g/L
- Divide this by 10 to get the value in %.

Classification:

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

Hazards identification
Transport information
Regulatory information

Storage:

Recommended Storage Temperature	0 to 40°C
Shelf-life, months	36

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 1.1