

BONDERITE C-AK T5187Known as P3-T 5187
August 2021**PRODUCT DESCRIPTION**

BONDERITE C-AK T5187 provides the following product characteristics:

Technology	Industrial Cleaner
Product Type	Neutral Cleaner
Application	Spray Process
Concentration	5 to 20 g/L
Operating Temperature	50 to 80 °C

Cleaning after cutting, stamping or pressing, simultaneously passivating steel and cast iron, e.g. in the metal working industry as well as in the manufacture of engines and transmissions, especially prior to thermal diffusion processes.

Application Areas:

BONDERITE C-AK T5187 has been designed especially for removal of polishing pastes. It has good detergent properties and does not attack aluminium or copper-containing metals.

Application in spray washers with one or more cleaning stages.

TECHNICAL DATA

Appearance	bright yellowish liquid
Density at 20°C (DIN 51757)	~1.02
pH-value	~10.7
Frost Stability:	> -5°C

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:

Concentration	5 to 20 g/L on steel and nonferrous metals 15 to 30 g/L on cast iron
Temperature:	50 to 80 °C
Duration of treatment	0.5 to 3 min

Before turning on the spray system preheating of the solution to application temperature is recommended to avoid interfering foam buildup.

Longer duration of treatment may cause discolourations on nonferrous metals.

Bath Control:

BONDERITE C-AK T5187 solution is controlled by titration of free alkalinity.

Titration factor (TF):	2.13
Feed, mL	100 mL
Acid:	0.5 N hydrochloric or sulfuric acid
Indicator:	Methyl orange
End point:	pH 3.6

Concentration (g/L) = TF * acid - consumption in mL

Foam Behaviour:

Applicable in the given concentration and temperature ranges without interfering foam. High infiltration of coolants may cause increased foam buildup during spraying (see 'Special remarks').

Waste Water Treatment:

Neutralization with technical hydrochloric or sulfuric acid or other acidic waste water is required. Due to soil infiltration during the washing procedure, waste water treatment may be necessary. Disposal must be carried out according to directives by local authorities.

Special Remarks:

Corrosion protection is increased, if deionized water instead of tap water is applied and the work pieces are stored at low relative air humidity and shielded against weather exposure. The product does not contain inorganic salts. Even despite high infiltration of coolants, the foaming behaviour of the product is unlikely to change; as a rule existing foam can be destroyed and a new formation be avoided by adding BONDERITE C-AD 0683.

Classification:

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

Hazards identification
Transport information
Regulatory information

Storage:

Recommended Storage Temperature, °C	5 to 35
Shelf-life, months	36

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.

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, 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 0.1