

## BONDERITE C-NE 5013

Known as P3 Neutrapon 5013

January 2013

### PRODUCT DESCRIPTION

BONDERITE C-NE 5013 provides the following product characteristics:

<b>Technology</b>	Industrial Cleaner
<b>Product Type</b>	Neutral Cleaner
<b>Application</b>	Parts Cleaning
Concentration on steel and nonferrous metals	5 to 20 g/L
Concentration on cast iron	15 to 30 g/L
Operating Temperature	20 to 80 °C spray process

BONDERITE C-NE 5013 is an aqueous neutral cleaner. It is composed of surfactants, salts of organic acids and hydrotropes. BONDERITE C-NE 5013 is free of solvents, organic corrosion protection components, inhibitors, nonionic surfactants and cationic surfactants. Change of colour is caused by raw material and has no impact on performance.

### Application Areas:

Cleaning after cutting, stamping or pressing, simultaneously passivating steel, cast iron and nonferrous metals. BONDERITE C-NE 5013 is used in spray processes.

### TECHNICAL DATA

Appearance:	clear, colourless liquid
Density at 20°C, DIN 51757	~1.07 g/cm <sup>3</sup>
pH-value (1% solution):	~8.0

### 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.

#### Bath Make-up:

Add the required amount carefully to the circulation system.

Concentration on steel and cast iron	5 to 20 g/L
Concentration on Aluminium	15 to 30 g/L

### Operating Data:

Temperature	20 to 80°C
Duration of treatment	0.5 to 3 min

### Bath Control:

BONDERITE C-NE 5013 solution is controlled by titration of free alkalinity.

Feed, mL	100 mL
Titration:	0.5 N hydrochloric or 0.5 N sulphuric acid
End point:	pH 3.6
Indicator:	Methylorange
Titration factor (TF):	3.4

- Pipette 100 mL bath solution into a clean 300 mL Erlenmeyer-flask.
- Add 4 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).
- Multiply the consumption of the acid solution with the titration factor (TF), to get the concentration in g/L
- Divide this by 10 to get the value in %.

### Additional Directions:

Corrosion protection is increased, if deionized water instead of tap water is used and the work pieces are stored at low relative air humidity and shielded against weather exposure.

### 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	24months
Frost-Sensitive	yes

**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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## Reference 0.0