

BONDERITE C-NE 400

Known as P3-neutracare 400

November 2022

PRODUCT DESCRIPTION

BONDERITE C-NE 400 provides the following product characteristics:

Technology	Industrial Cleaner
Product Type	Neutral Cleaner
Application	Parts Cleaning
Concentration on steel and nonferrous metals	5 to 15 g/L
Concentration on cast iron	10 to 20 g/L
Operating Temperature	10 to 80 °C spray process

BONDERITE C-NE 400 is an aqueous neutral cleaner. It is composed of organic corrosion protection components, cleaning active agents and inhibitors. Change of colour is caused by raw material and has no impact on performance.

Application Areas:

Cleaning after cutting, stamping or pressing and simultaneously passivating steel and cast iron, e.g in the metal working industry as well as in the manufacture of engines and transmissions. BONDERITE C-NE 400 is used in spray processes, suitable for high pressure operations.

TECHNICAL DATA

Appearance	clear, bright yellowish liquid
Density at 20°C, DIN 51757	~1.06 g/cm ³
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 nonferrous metals	5 to 15 g/L
Concentration on cast iron	10 to 20 g/L

Operating Data:

Temperature	10 to 80°C
Duration of treatment	0.5 to 3 min

Bath Control:

BONDERITE C-NE 400 solution is controlled by titration of total alkalinity.

Feed, mL	100 mL
Titrant:	0.5 N hydrochloric or 0.5 N sulphuric acid
End point:	pH 3.6
Indicator:	Methyl orange
Titration factor (TF):	1.3

- Pipette 100 mL of the bath solution into a 300 mL Erlenmeyer-flask.
- Add 4 to 5 drops of indicator.
- Titrate the solution with 0.5 N hydrochloric or 0.5 N sulfuric 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 %.

If bath solution is free of oil and fat measurement of product concentration via handheld refractometer is possible.

A solution of 10 g/l BONDERITE C-NE 400 shows 0.8 % Brix (measured at 20°C), a solution of 100 g/l shows 8 %Brix.

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, °C	0 to 40
Shelf-life, months (in unopened original packaging)	24
Frost-Sensitive	yes

ADDITIONAL INFORMATION

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Reference 0.3