BONDERITE

Technical Data Sheet

BONDERITE C-NE 20

Known as P3-galvaclean 20

April 2020

PRODUCT DESCRIPTION

BONDERITE C-NE 20 provides the following product characteristics:

Technology	Industrial Cleaner
Product Type	Neutral Cleaner
Application	Parts Cleaning
Concentration on steel	20 to 80 g/l
Operating Temperature	40 to 90 °C dip process

BONDERITE C-NE 20 is composed of salts of organic acids, non-ionic surfactants and alkanolamine.
BONDERITE C-NE 20 is an aqueous neutarl cleaner for intermediate- and final cleaning in immersion processes, with and w/o ultrasonic support.

Application Areas:

- Metal working industry, machine construction, automotive industry, electronic industry, hardening plants a.o.
- Final and intermediate cleaning in immersion processing, with and without ultrasonics
- Removal of cooling lubricants, punch and drawing agents, lap and honing residues as well as polishing paste and grinding soil
- Cleaning of parts made of stainless steel, steel, copper, aluminium and zinc alloys after metal working
- Treatment with BONDERITE C-NE 20 generates a hydrophobic film on metal surfaces which accelerates drying when used in the final cleaning stage. Steel surfaces are passivated at the same time.
- Prior to a further surface treatment with aqueous media like i.e. galvanic or phosphating lines, the hydrophobic film must be removed using an alkaline cleaner.
- Coloured metal surfaces are lightened up if using product concentrations >30 g/L.

TECHNICAL DATA

Appearance	yellow to light brown liquid
Density at 20°C, DIN 51757	~1.04 g/cm³
pH-value (1% solution):	~8.5

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:
The product is added to the preheated (40 to 50 °C) water while agitating. A dilution of the concentrate with water at temperatures below 25 °C leads to a strong gel formation. The bath can only be operated when the cleaner has been fully dissolved. If a surface treatment is to follow the cleaning, then a water rinse of the object surface is necessary.

BONDERITE C-NE 20	20 to 80 g/L
When treating Zamak the bath make-up must be performed with chloride free or deionised water.	

Operating Data:

Temperature	40 to 90°C
Duration of treatment:	
in immersion processes	5 to 15 min
in ultrasonic cleaner with agitation	bath 30 to 120 sec

Bath Control:
BONDERITE C-NE 20 solution is controlled by titration of 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):	5.6

- With a pipette transfer 50 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 %.

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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)	36
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. 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.

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