

## BONDERITE C-AK 1559

Known as Ridoline 1559

January 2016

### PRODUCT DESCRIPTION

BONDERITE C-AK 1559 provides the following product characteristics:

<b>Technology</b>	Industrial Cleaner
<b>Product Type</b>	Alkaline Cleaner
<b>Application</b>	Metal Pre-Treatment

BONDERITE C-AK 1559 is a solid alkaline cleaner based on borate, phosphate and nonionic surfactants for steel and electrogalvanized steel.

### Application Areas:

BONDERITE C-AK 1559 is used in spray- or immersion processes. Performance can be increased by adding a suitable cleaning booster.

### TECHNICAL DATA

Bulk density, (at 20°C), g/L	~860
pH-value (1% in DI water 20°C)	~12.1

### 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:

Fill the tank with warm water, start pumping and add for a volume of 1,000 L:

BONDERITE C-AK 1559	2 to 20 kg
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#### Operating Data:

Adjusting the following parameters could be necessary depending on the line conditions.

#### Total alkalinity:

BONDERITE C-AK 1559	2.0 to 20.0 mL
Temperature	50 to 60°C
Duration of treatment	1 to 5 min
Spray pressure	0.8 to 2.0 bar

#### Bath Control:

BONDERITE C-AK 1559 solution is controlled by titration of free alkalinity.

Feed, mL	10 mL
Titrant:	0.1 N hydrochloric or 0.1 N sulfuric acid
End point:	pH 3.6
Indicator:	bromecresolgreen (0.1 % alcoholic solution)

- Cool down bath solution to room temperature and pipette 10 mL bath solution into a clean 300 mL Erlenmeyer-flask.
- Add 50 mL deionized water.
- Add 4 to 5 drops of indicator.
- Titrate the solution with 0.1 N hydrochloric or 0.1 N sulfuric acid.
- The endpoint will be shown by a colour change from blue to yellow (pH: 3.6).
- The consumption of 0.1 N hydrochloric or 0.1 N sulfuric acid in mL is equal to the points of total alkalinity

#### Replenishing:

For each missing point for a volume of 1,000 L add:  
BONDERITE C-AK 1559 1.0 kg

#### Classification:

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

**Hazards identification**  
**Transport information**  
**Regulatory information**

#### Storage:

Recommended Storage Temperature	-15 to 40°C
Shelf-life, months	18months

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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 0.2