

BONDERITE C-AK 1559

Known as Ridoline 1559

January 2016

PRODUCT DESCRIPTION

BONDERITE C-AK 1559 provides the following product characteristics:

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|---------------------|---------------------|
| Technology | Industrial Cleaner |
| Product Type | Alkaline Cleaner |
| Application | 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:

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|---------------------|------------|
| BONDERITE C-AK 1559 | 2 to 20 kg |
|---------------------|------------|

Operating Data:

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

Total alkalinity:

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|-----------------------|----------------|
| 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.

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|------------|---|
| 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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Reference 0.2