

BONDERITE® C-AK 5831 ECO

November 2025

Product description

BONDERITE® C-AK 5831 ECO provides the following product characteristics:

Technology	Industrial cleaner
Product type	Alkaline cleaner
Application	Cleaning of metal parts

BONDERITE® C-AK 5831 ECO consists of alkali, phosphates, phosphonates and is free of borates.

Application areas:

BONDERITE® C-AK 5831 ECO can be used as cleaner for multi-metal application and is suitable for steel, HDG, ZM and preferably Aluminium alloys for removal of pigment soils. The usage on HDG and ZM substrates needs to be pretested, because of potential discoloration of both substrates. BONDERITE® C-AK 5831 ECO can be used in immersion- and spray applications, which requires the appropriate selection of a surfactant product from the BONDERITE® C-AD product range.

Application

Immersion, high temperature (50 – 60°C)	BONDERITE® C-AD 1400
Immersion, low temperature (30 – 40°C)	BONDERITE® C-AD 20202
Spray, high temperature (50 – 60°C)	BONDERITE® C-AD 5003
Spray, low temperature (30 – 40°C)	BONDERITE® C-AD RT 1020 S

Product recommendations

Technical data

Appearance	transparent to slightly yellowish
Density at 20°C, DIN 51757, g/cm³	1.3
pH-value (1% solution)	8.2

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.

Operating data:

Concentration BONDERITE® C-AK 5831 ECO	10 – 50
Concentration BONDERITE® C-AD, g/L	1 – 5
Operating temperature, °C	30 – 70
Operating time, min time depends on current use case	1 – 5

Bath control:

The bath solution is controlled by titration of total alkalinity.

Feed, mL Bath solution	10
Titrant	0,1N Hydrochloric acid (alt. sulfuric acid)
End point, pH	4.0
Calculation factor, g/(L*mL Titrant)	7.7

- Dose 10 mL bath solution to a clean 300 mL Erlenmeyer flask and add 50 mL DI-water and a magnetic stir bar.
- Place the prepared Erlenmeyer flask to a magnetic stirrer, add a calibrated pH-measuring cell and start stirring.
- Start titration with the titrant until the end point is met.
- The amount of used titrant must be multiplied with the calculation factor to calculate the current bath concentration in g/L.
- Replace missing product concentration in by adding product g/L.

Classification:

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

Transport Regulations
Hazardous Information
Safety Regulations

Storage:

Recommended storage temperature, °C	0 to 40
Shelf-life (in unopened original packaging), months	24
Frost-sensitive	Yes



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