

BONDERITE C-AK 187 G

Known as Novaclean 187G
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PRODUCT DESCRIPTION

BONDERITE C-AK 187 G provides the following product characteristics:

Technology	Cleaner
Product Type	Liquid alkaline cleaner
Application	Steel Strip

BONDERITE C-AK 187 G is a high alkalinity, heavy duty, dip, spray and electro-cleaner, formulated for fast efficient cleaning of steel in continuous sheet and strip plants.

It can also be used to degrease brass prior to electroplating.

BONDERITE C-AK 187 G incorporates a blend of surfactants for the rapid penetration and emulsification of a wide range of rolling oils.

Such emulsions are designed to be sufficiently unstable to allow separation of oil on standing, for subsequent effluent disposal.

The surfactant system is low foaming at ambient temperatures and negligible foam is produced at normal operating temperatures of 50°C and above.

This property enables the solution to be circulated during the build-up to operating temperatures, without excessive foam generation.

Incorporation of sequestrants prevents precipitation of hard water salts in water up to 150 ppm hardness, when the product is used at normal spray cleaning use concentration.

BONDERITE C-AK 187 G contains no silicates. Any residues left after rinsing will not inhibit subsequent pickling and plating operations.

NB: When cleaning zinc coated components prior to painting, high concentration Solutions may convert surface zinc to insoluble zinc salts which reduce subsequent phosphate treatment and paint adhesion efficiency. This may be prevented by using a low cleaner concentration and following with a sour rinse.

TECHNICAL DATA

Appearance: pale yellow , clear liquid
Specific gravity (20°C), g/cm³: 1.42

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.

Application:

BONDERITE C-AK 187 G is primarily intended for use in high speed strip coating lines, for the rapid removal of rolling oils and particulate matter by both spray and electro-cleaning techniques. It is also effective in removing pressing and drawing lubricants in electro-cleaning operations prior to electro-plating, or spray cleaning prior to vitreous enamelling.

Operating Parameters:

a) Soak Cleaning:

Concentration 1 to 5 % (v/v)
Temperature 50 to 80 °C
Time 2 to 10 min

b) Spray Cleaning:

Concentration 2.5 to 4 % (v/v)
Temperature 50 to 70 °C
Spray pressure 20 to 40 psi
Time 15 sec - 3 min

NB: For zinc coated steel, prior to painting, maximum concentration is 1% v/v

c) Electro-cleaning:

Concentration 5 to 10 % (v/v)
Temperature 50 to 80 °C
Current density 2 to 10 Amps/ dm²
Time 15 sec - 5 min

Optimum operating conditions for specific applications will be advised by the Henkel Technical Representative.

Equipment:

Mild steel is suitable for the construction of tanks, pipework and other equipment. Brass, aluminium or other light alloy fittings must not be used.

Strength Determination and Control:

Titrate a 10 mL aliquot of working solution with N acid to phenolphthalein end point.

Concentration: (% v/v) = 1.03 x titration (mL N acid)
(% w/w) = 1.46 x titration (mL N acid)

Effluent Information:

A solution of BONDERITE C-AK 187 G left to stand for up to 24 hours will separate into water and oil phases which may be wired off for disposal.

The spent aqueous phase should be adjusted with acid to a pH acceptable to the local drainage authority, before disposal.

Precautions:

BONDERITE C-AK 187 G contains caustic alkalis. Avoid contact with the skin, eyes and clothing. Causes burns.

Normal precautions for handling caustic product should be observed, including the wearing of PVC or rubber gloves, apron and face shield or goggles approved to EN 166/3F.

In case of spillage or contact with skin or clothing, drench with plenty of water. For eyes rinse with clean water and continue Irrigation for at least ten minutes, whilst obtaining medical advice.

Storage:

Recommended Storage Temperature, °C	0 to 50
Shelf-life, months (in unopened original packaging)	24

Classification:

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

Hazards identification
Transport information
Regulatory information

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.

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