

BONDERITE C-AK 187DR ALKALINE CLEANER

known as: Novaclean 187 DR
November 2013

1. PRODUCT DESCRIPTION

BONDERITE C-AK 187DR ALKALINE CLEANER is a high alkalinity, heavy duty, dip, spray and electro-cleaner formulated for fast, efficient cleaning of steel strip prior to continuous annealing, electroplating and galvanising.

BONDERITE C-AK 187DR ALKALINE CLEANER incorporates a blend of surfactants for 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 subsequently effluent disposal.

BONDERITE C-AK 187DR ALKALINE CLEANER is a pale yellow, clear liquid with an SG of 1.35 at 20°C.

NB: When cleaning zinc coated components prior to painting, high concentration solutions may convert surface zinc to insoluble zinc salts, these reduce subsequent phosphate treatment and paint adhesion efficiency. **Using low cleaner concentration and following with a sour rinse may prevent this.**

2. OPERATION

2.1 Dip Cleaning

Concentration	:	3 - 5% v/v
Temperature	:	60 - 80°C.
Time	:	variable

2.2 Spray Cleaning

Concentration	:	2.5 - 4% v/v
Temperature	:	60 - 80°C.
Spray Pressure	:	20 - 40 psi
Time	:	variable

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

2.3 Electro-cleaning

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Concentration	:	3 % 10% v/v
Temperature	:	60 - 80°C
Current Density	:	4 - 10A/dm ²
Time	:	variable

The cleaning conditions required will depend upon the degree of soil contamination present on the metal surface. Optimum cleaning conditions for specific applications will be advised by the Henkel Technical Representative.

3. STRENGTH DETERMINATION AND CONTROL

- Titrate 10ml aliquot of working solution with N acid to phenolphthalein end point.

$$\text{Concentration (\% v/v)} = 1.1 \times \text{titration (ml N acid)}$$

4. WATER RINSE

All work processed through the cleaning section should be rinsed in hot water (50-80°C) immediately after cleaning.

5. EQUIPMENT

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

6. HANDLING PRECAUTIONS

BONDERITE C-AK 187DR ALKALINE CLEANER contains caustic alkalis. Avoid contact with skin, eyes and clothing.

Normal precautions for handling caustic products should be observed, including wearing of protective 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 water. For eyes, rinse with plenty of clean water and continue irrigation for at least ten minutes, whilst obtaining medical attention.

7. EFFLUENT

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A solution of BONDERITE C-AK 187DR ALKALINE CLEANER left to stand will separate into water and oil phases which may be weired off for disposal.

The spent aqueous phase should be processed through a waste water treatment plant prior to discharge to sewer.

The processing bath and sludge will contain ingredients other than those present in BONDERITE C-AK 187DR ALKALINE CLEANER.

8. FURTHER INFORMATION

Full information on the hazards and safe handling of the product as supplied is given in the MATERIAL SAFETY DATA SHEET, which must be read and understood by everyone handling or using this product.

This information is based on our current level of knowledge. It is given in good faith but it is not intended to guarantee any particular properties. The users must satisfy themselves that there are no circumstances requiring additional information or precautions or the verification of details given herein.