

BONDERITE M-AD LCC

Known as Neutralisant LCC

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PRODUCT DESCRIPTION

BONDERITE M-AD LCC provides the following product characteristics:

Technology	Metal Pretreatment
Product Type	Neutralizing Fluid
Application	Pickling

BONDERITE M-AD LCC is a neutralizing fluid developed for use in pickling lines of steel tubes.

This product provides the neutralization after the rinse following a hydrochloric or sulfuric pickling.

BONDERITE M-AD LCC is sodium- nitrite free.

TECHNICAL DATA

Aspect	Clear yellowish liquid
Density, g/cm ³	~1.24
pH-Value	10 to 11

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 Parameters:

Usual concentration of use: 1.5 % in water (in volume).

BONDERITE M-AD LCC being adjusted according to the acidic drag in through the rinse following the pickling stage, the concentration can be increased up to 5%.

Temperature, °C	75 to 80
Time, min	2 to 5
Material	The tank containing BONDERITE M-AD LCC should be made of ordinary steel (boiler quality).

Bath Control:

<u>Equipment required</u>	<u>Reagents required</u>
1 pipette of 50 mL	phenolphthalein 0.2 %
1 beaker of 250 mL	HCl 0.1 N
1 automatic burette 25 mL	distilled water

Method:

Take a sample of exactly 50 mL of the BONDERITE M-AD LCC bath.

Transfer it into the 250 mL beaker.

Add 5 to 6 drops of Phenolphthalein 0.2%, homogenize, the mixture turns pink.

Using the automatic burette filled up to the "0" line with 0.1 N HCl, slowly add this solution to the mixture under stirring until the pink color disappears.

Record the number of mL of 0.1 N HCl used.

For a new bath, made up at 1% in volume, this shift is obtained by adding 18 mL of 0.1 N HCl solution.

During operation, 60 mL of BONDERITE M-AD LCC have to be added per 100 L of bath and per missing point compared to the make up titration.

Storage:

Recommended Storage Temperature, °C	>0
Shelf-life, months (in unopened original packaging)	24
Frost-Sensitive	yes

This product can be stored in polyethylene containing packaging. The handling presents a risk at temperatures below -5°C (inherent to the properties of polyethylene at -5 °C: brittle).

Classification:

Please refer to the corresponding **Material Safety Data**

Sheets for details on:

Hazards identification
Transport information
Regulatory information

ADDITIONAL INFORMATION**Disclaimer****Note:**

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