



FOCUS TECH PROCESS CHEMICALS

Technical Data Sheet

Copper Coat AT-24

Copper Anti-Tarnish

Product Description

Copper Coat AT-24 is a concentrated triazole solution designed to prevent copper oxidation, improve dry film adhesion and preserve the surface for subsequent processing. Copper Coat AT-24 neutralizes the copper surface after electroless copper and deposits a uniform triazole film that promotes excellent dry film adhesion. It utilizes a milder acid system to extend the surface quality life and is a simple single component make-up for ease of operation.

Physical Properties

Specific gravity: 1.31
pH: <2
Appearance: clear, light amber liquid

Operating Parameters

Concentration: 5 - 15% v/v, 10% nominal
Temperature: 70 – 100 °F

Analytical Procedure

Materials required:

1. 500 ml volumetric flask
2. 10 ml pipette
3. UV/VIS

Procedure:

1. Pipette 10 mls of working solution into the 500 ml volumetric flask and fill to the mark with DI water.
2. Set up the UV/VIS @ 259 nm and using the ABS setting, zero a blank using DI water.
3. Test the ABS of the diluted solution.

Calculation:

$$\% \text{ Concentration} = \text{ABS} \times 8.547$$

Analytical Procedure (CONT)

AT-24 concentration (Alternative Method)

Materials required:

1. 250 ml Erlenmeyer flask
2. 20 ml pipette
3. 1.0 N NaOH
4. phenolphthalein indicator

Procedure:

1. Pipette 20 mls of working solution into the Erlenmeyer flask and add 100 mls of DI water.
2. Add 5 drops of phenolphthalein indicator.
3. Titrate with 1.0 N NaOH from clear to a purple endpoint.

Calculation:

AT-24 concentration (% v/v) = mls 1.0 N NaOH used X 0.83

Storage

Store in original containers above 40 °F.

Safety

Avoid contact with eyes, skin and clothing. Wear chemical handler's gloves, goggles and protective clothing when handling. Read and understand Material Safety Data Sheet before using this product.

Notice

The information and recommendations, contained herein, regarding this product are, to the best of our knowledge, true and accurate. We make no guarantee of results because the conditions of actual use are beyond our control. We assume no liability for damages or penalties resulting from the use of this product or following our recommendations. Our recommendations and suggestions for use of this product are not intended to grant license to operate under or infringe any patent.