



FOCUS TECH *Process Chemicals*

Technical Data Sheet

Focus Tech TSOx-3001

Tin/Solder Stripper

Product Description

TSOx-3001 is an ammonium bifluoride/hydrogen peroxide based tin/solder stripper. TSOx-3001 can be used in spray or immersion and for either full panel or tab stripping applications. TSOx-3001 is excellent for selective solder stripping applications where nickel/gold plating is present because it will not attack the nickel plating and cause gold slivers. TSOx-3001 strips tin/solder quickly and leaves the underlying copper surface clean, residue free and ready for subsequent processing. TSOx-3001 can be replenished with technical grade hydrogen peroxide to extend bath life.

Features

- ⊙ Hydrogen peroxide replenishable
- ⊙ Rate enhancing additives
- ⊙ Low copper attack

Benefits

- ⊙ Low operating costs
- ⊙ Increases strip rate without increasing consumption
- ⊙ Superior surface cosmetics

Physical Properties

Specific gravity: 1.2
pH: <2
Appearance: Clear, light green to water white liquid

Compatible Materials of Construction

Plastics	Polypropylene, polyethylene, PVC or Teflon
Metals and alloys	Hastelloy-C
Elastomers	Viton

Operating Parameters

Concentration:	100%
Temperature:	70 °F – 90 °F
Dwell time:	0.5 – 2 minutes
Ventilation:	recommended
Hydrogen Peroxide:	6% - 8% hydrogen peroxide (as 50% H ₂ O ₂)

Analytical Procedures

Hydrogen peroxide concentration

Materials required:

1. 250 ml Erlenmeyer flask
2. 100 ml volumetric flask
3. 1 ml pipette
4. 10 ml pipette
5. 0.1 N ceric ammonium sulfate
6. 25% sulfuric acid
7. ferroin indicator

Procedure:

1. Pipette 10 mls of stripper into the 100 ml volumetric flask and fill to level with DI water.
2. Pipette 1 ml of diluted sample into the Erlenmeyer flask and add approximately 50 mls of DI water.
3. Add 20 mls of 25% sulfuric acid.
4. Add 10 drops of ferroin indicator.
5. Titrate with ceric ammonium sulfate from orange to a blue-green endpoint.

Calculation:

$$50\% \text{ Hydrogen peroxide (\% v/v)} = \text{mls } 0.1\text{N ceric ammonium sulfate used} \times 2.72$$

Storage

Store in original containers above 40 °F.

Safety

CAUTION! TSOX-3001 contains oxidizing acidic components. 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

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