



# **FOCUS TECH PROCESS CHEMICALS**

## **Technical Data Sheet**

### **Focus Tech TSOx-3001**

#### **Tin/Solder Stripper**

#### **Product Description**

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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**

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

#### **Compatible Materials of Construction**

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

## ***Operating Parameters***

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

## ***Analytical Procedures***

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### **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% Hydrogen peroxide (% v/v) = mls 0.1N ceric ammonium sulfate used X 2.72

## ***Storage***

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Store in original containers above 40 °F.

## ***Safety***

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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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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.