



FOCUS TECH *Process Chemicals*

Technical Data Sheet

Focus Tech TSN-3000R

Tin/Solder Stripper

Product Description

TSN-3000R is specifically formulated for replenishing tin/solder stripping processes. TSN-3000R strips tin and solder etch resists quickly and cleanly and leaves the underlying copper surface with a bright, uniform finish. TSN-3000R's concentrated formulation allows the user to maintain fast strip rates with very high metal loading. Proprietary additives minimize copper attack and eliminate sludge formation. TSN-3000R can also be used to strip HAL solder when reworking is required. Use TSN-3000R only in continuous replenishment applications to extend bath life and achieve metal loading in excess of 20 ounces per gallon without compromising throughput. Use TSN-3000 as the starter for this process.

Features

- ⊙ High metal loading
- ⊙ Reduced sludge formation

Benefits

- ⊙ Low operating costs
- ⊙ Reduces equipment maintenance

Physical Properties

Specific gravity: 1.2
pH: <2
Appearance: Clear, amber liquid

Compatible Materials of Construction

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

General Operation

TSN-3000R is designed specifically for replenishment of steady state stripping processes and should only be added to a process when the specific gravity is greater than 1.32. The stripping process must be started using a traditional nitric stripper such as TSN-3000. A typical start up procedure is as follows:

1. Charge equipment with TSN-3000 and begin processing parts.
2. Place control system in standby and process parts while adjusting line speed to maintain desired breakpoint.
3. When the minimum acceptable line speed is reached, set the specific gravity controller to replenish with TSN-3000R at the current specific gravity. Specific gravity should be at least 1.32.
4. As TSN-3000R is added, strip rates will increase until the bath is completely turned over. During this transition, process specific gravity should be gradually increased to maintain breakpoint. Depending on throughput requirements and equipment configuration, the final process specific gravity should be from 1.36 to 1.40.

Operating Parameters

Concentration:	100%
Temperature:	80 °F – 100 °F
Dwell time:	0.5 – 2 minutes
Ventilation:	recommended

Storage

Store in original containers above 40 °F.

Safety

CAUTION! TSN-3000R contains 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

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