

## Product Data Sheet

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**PRODUCT #: N8362**

# *NPS 3002*

Enhanced Single Step Tin Stripper

**DESCRIPTION:** A concentrated nitric acid based tin stripper with exceptional loading capacity, high strip speed, and resistance to exotherming. *NPS 3002* is designed for use in high speed, steady-state, high volume applications. It leaves a bright copper surface for subsequent processes. *NPS 3002* has a high tin holding capacity, greatly reducing re-deposition of tin oxide on equipment surfaces and in spray nozzles.

**BENEFITS:**

- **Beats the competition for highest loading capacity and fastest strip speeds**
- **Holds tin in solution to prevent re-deposition of tin oxides**
- **Minimal copper attack**
- **Bright copper surface**
- **Resists exotherming**

**SPECIFICATIONS:**

<b>Density:</b>	1.22 gm/ml, 10.1 lbs./gal. @ 20°C
<b>pH:</b>	< 1
<b>Flash Point (TCC):</b>	None
<b>Appearance:</b>	Clear yellow to green liquid

**INSTRUCTIONS:**

<b>Concentration:</b>	Use as supplied
<b>Temperature:</b>	80° - 100°F
<b>Strip Time:</b>	10 - 45 seconds

For use in spray applications. Equipment must be free from metallic residues prior to installing this product. Residues may reduce bath life and decrease loading. To clean equipment, fill with 10 - 20% nitric acid solution and circulate for one hour at 100°F. Drain and rinse.

When starting a new bath, it may be necessary to dilute with 10% water or spent solution, to moderate the activity of the solution until it becomes slightly loaded.

Maintain temperature between 80 and 100°F. Pumping the solution will generate some heat; use of heating and/or cooling coils may be necessary to maintain temperature within this range.

The conveyor speed should be set to maintain the break point at about 50% of the length of the chamber. If the break point is less than 50%, *NPS 3002* can be diluted with 10% water. This will insure that the tin or tin/lead is completely removed while minimizing the amount of copper dissolved into the solution. Adjust the spray pressure so that both sides of the panel are stripped in approximately the same dwell time.

