

## PRODUCT DATA ALK-CU-STRIP- STANDARD FORMULA Copper Stripper

### INTRODUCTION

Alk-Cu-Strip is a two part cyanide-free, chromium-free and recyclable copper stripper, that will not attack steel substrates when used as directed.

### USE DIRECTIONS:

Initial Bath Make-Up:      Part A = 4 parts by volume      Part B = 1 part by volume

Compatible Materials of Construction: Plastics, such as CPVE\*, PVC\*, Polyolefins\* (recommended) (\*Note: Do not exceed operating temperature limits for these materials) Stainless steel (acceptable)

### OPERATING PARAMETERS:

- pH	9.3 minimum	Determine by pH-meter.
- Temperature	ambient	Excessive temperature will cause loss of Part A and rapid pH drop.
- Copper content	up to 10 oz/gallon	Determine by Atomic Absorption Analysis. (Iodometric methods can not be used directly because Part B will interfere.)
- Agitation	recommended	Use moderate mechanical agitation only. Do not use air agitation. Will cause loss of Part A and excessive odor. Turn off agitation when bath is idle. Parts should be fully immersed.
- Ventilation	required	Part A is Ammonia based. Do not over-ventilate. Cover tank when not in use. Float poly-propylene balls on surface to reduce ammonia loss.

## ALK-CU-STRIP, Copper Stripper (continued)

### TROUBLE SHOOTING GUIDE

<u>PROBLEM</u>	<u>POSSIBLE CAUSE</u>	<u>SOLUTION</u>
Pitting of steel	Low pH Excessive chlorides	Add Part A to raise the pH to 9.3 or higher. -Dump the bath and start with a fresh mixture. -If not dumped, replenish the used bath with Part A only. -During the make-up of a fresh bath, do not over add Part B. Do not add Part B to existing bath.
Corrosion of steel after stripping	Low pH or excessive chlorides Acidic rinse waters	See above. -Use a stagnant water rinse made with 10% Part A to raise the pH to 9.0 or higher. -Use a hot final rinse to aid in drying.
Low strip rate	Low pH High copper	Add Part A to raise the pH. Once copper accumulates in the bath, it will aid in stripping. Stripping will stop when copper exceeds 12 oz/gal. Add Part A in small increments (no more than 10% of total bath volume at one time).
Rapid pH drop	Over venting Overheating	Cover the tank when not in use. Reduce stripping temperature.



**ALK-CU-STRIP, Copper Stripper** (continued)

**SAFETY PRECAUTIONS**

1. Always consult the MATERIAL SAFETY DATA SHEET prior to handling.
2. Avoid contact with acids of Part B or the ready mixed stripping bath.
3. Ventilate the work area, to keep ammonia odors within comfortable and admissible limits.
4. Avoid any skin contact with the stripper.

**RECYCLING**

Contact your supplier for recycling service information, or call:

PHIBRO-TECH INC.  
65 Challenger Road  
Ridgefield Park, NJ 07660  
1-800-357-6840

PHIBRO-TECH INC.  
8851 Dice Road  
Santa Fe Springs, CA  
1-800-777-1850

Spent Alk-Cu-Strip solutions can be recycled in Joliet, IL and Santa Fe Springs, CA. This service is a unique and superior alternative to other forms of disposal of spent Alk-Cu-Strip. Shipment paperwork and drum labeling must conform to D.O.T. standards and state rules for spent materials.

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