



# Cuprastrip System

The Cuprastrip System is an alkaline copper stripping composite solution for stripping copper electro plate from ferrous metals.

The Cuprastrip System is based upon Cuprastrip 1 and Cuprastrip 2. The stripping system is cyanide-free, chromate-free and nitrite/nitrate free.

## Features & Benefits

- Rapid stripping rate
- Will not attack ferrous metals
- Copper may be precipitated from the Cuprastrip solution
- Easy to make up and operate
- Cyanide Free

## Typical Applications

- Removal of copper from ferrous metals

## Operating Parameters

Cuprastrip solution makeup:

|                           |            |
|---------------------------|------------|
| Water (municipal or well) | 25% (vol.) |
| Cuprastrip 1              | 50% (vol.) |
| Cuprastrip 2              | 25% (vol.) |

Operating temperature range; room to 150 F.

Elevated solution temperatures would be required as the Cuprastrip solution's stripping rate begins to fall. Generally, the Cuprastrip solution is operated at room temperature. It is only as the copper build up begins to accumulate in the Cuprastrip solution that the stripping rate begins to increase. At about 4 to 5 oz/gal. copper concentration, the rate begins to slow.

We also suggest that in order to reduce stripping time, agitation of the solution or work is recommended. Agitation greatly improves stripping rate.



## Equipment

|              |  |
|--------------|--|
| Tanks:       | PVC lined, polyethylene, polypropylene                             |
| Baskets:     | Steel plastisol coated, stainless steel, steel                     |
| Heaters:     | Titanium, karbate or quartz  |
| Ventilation: | Required - do not use this product without sufficient ventilation. |

## Control

The operation pH of the Cuprastrip solution range:

9.5 to 10.00. Should the pH of the Cuprastrip solution fall below 9.5, because of standing, then add sufficient Cuprastrip 1 to raise the pH.

Note: Cuprastrip 1 is not only consumed in the stripping action but may also be lost when the bath is idle and uncovered. Cuprastrip 2 will only be consumed in the stripping action.

Operating the Cuprastrip solution at a pH below 9.3 will reduce the stripping rate but also corrode the steel or steel alloys. The corrosion of the steel would be especially noted when the immersion times are prolonged.

## Waste Disposal

**Rinse Waters:** Can be bled & fed into larger systems WITHOUT metals. If metals are present pH should be driven up & ammonia allowed to be driven off. Chlorite can be reduced before pH is dropped.

**Spent Bath:** This bath will be high in Cu. Care must be taken if treating in a spent bath. Ammonia can be driven off at a pH of >12.5 & chlorite should be reduced at pH 10. Samples should be profiled for best treatment option.



## Caution

Do not allow Cuprastrip solutions to dry on combustible surfaces.

Do not add, or allow, Cuprastrip solutions to come in contact with acids. Reaction of Cuprastrip solutions with acids will generate a toxic gas. Any exposure must be treated by administering oxygen or getting the patient into fresh air.

In summary avoid skin and eye contact. Wear protective clothing and chemical goggles. Flush exposed areas immediately with clean cold water, and in case of eye contact seek immediate medical attention. Any apparent reddening of skin, seek medical attention.

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