

# Techni Silver® Cyless® II-W

## Cyanide-free Silver Process



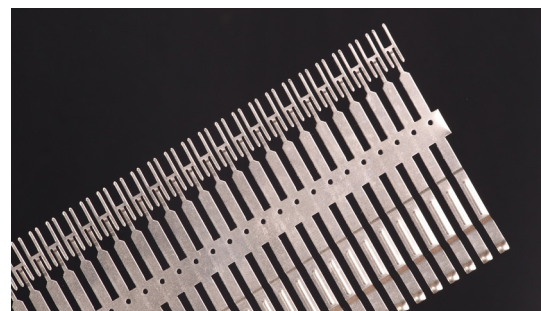
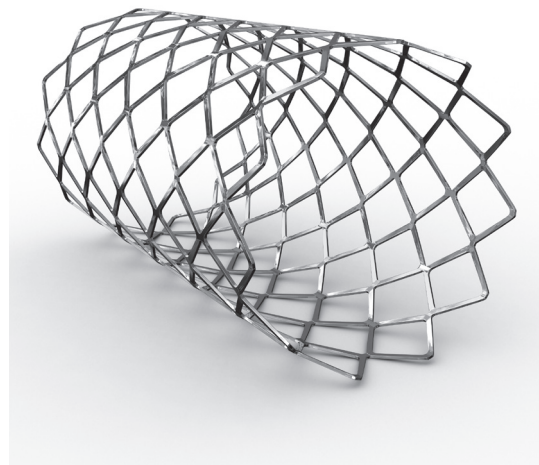
## Safer Dual-Purpose Cyanide-free Silver

**Techni Silver® Cyless® II-W** is a cyanide-free, mildly alkaline silver plating solution engineered for both general metal finishing, and electronic component/connector applications.

Unlike typical cyanide-free silver plating processes, this product delivers bright, non-yellowing, and evenly distributed finishes that meet the demands of today's environmentally conscious manufacturers.

Thanks to its unique formulation, Techni Silver® Cyless® II-W also provides several management and cost advantages.

As a high-performance alternative to traditional cyanide-based systems, Techni Silver® Cyless® II-W supports global sustainability goals without compromising on appearance or functionality - making it a smart solution for demanding industries requiring both aesthetic properties and high performance.



## Benefits

- Lowers chemical risks for manufacturers and operators
- Longer bath life with little to no degradation of bath over time
- Cost savings due to lower usage of electric current
- Lower silver metal concentration vs typical cyanide-based baths
- Negates the risk of degradation of compounds in case of fire
- Excellent anodic dissolution capacity
- Eliminates the high cost associated with treating cyanide-containing wastewater
- No noticeable increase in the consumption of additives as bath ages
- Bath efficiency, in terms of deposition of thickness and unit immersion time, does not decrease with bath life

## Features

- Environmentally safe and compliant with global regulations
- Produces white, leveled silver deposits with a non-yellow appearance
- Comparable finish to cyanide-based baths
- Excellent throwing power
- Adjustable to achieve either bright or semi-bright finishes
- High chemical stability
- Excellent solderability
- Operates at room temperature

# Techni Silver® Cyless® II-W

| Chemicals Required                                      |  | For 1 liter |
|---|--|-------------|
| Techni Silver® Cyless® II-W Make-up Liquid              |  | 257 ml      |
| Techni Silver® Cyless® II Complexor                     |  | 60 g        |
| Techni Silver® Cyless® II Concentrate                   |  | 37.5 ml     |
| Techni Silver® Cyless® II-W Brightener                  |  | 20 ml       |
| pH (lower with Techni Silver® Cyless® II-W pH Adjuster) |  | to 9.0      |



## Silver Strike

Unlike other non-cyanide baths on the market, Techni Silver® Cyless® II-W can deposit on bright nickel, leaded brass, or other difficult-to-plate substrates with the addition of a silver strike:

- The make-up for a Techni Silver® Cyless® II-W strike bath is shown in the above table.
- Plate at 0.2-0.3 ASD for 1-2 min at room temperature.

| Chemicals Required                             |          | Operating Parameters |        |
|--|----------|----------------------|--------|
| Product  | Quantity | Temperature          | Time   |
| Techni Silver® Cyless® II Post Dip Concentrate | 50 ml    | 60° C                | 30 sec |

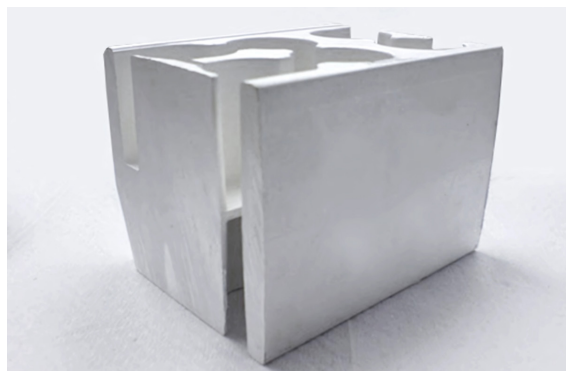
## Post Dip

Techni Silver® Cyless® II Post Dip should be used in conjunction with the Techni Silver® Cyless® II-W process:

- It effectively removes residual cathodic films from plated surfaces and assures a clear, white deposit.
- Quantities and operating parameters are shown in the left table.

## Applications

White deposits even in recessed areas.



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