



SUPER STRIP 300

GOLD AND GOLD ALLOY STRIPPER

For Electronic Finishing Applications

Regional Product Availability			
N.America	Japan/Korea	Asia	Europe
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DESCRIPTION

The Super Strip 300 process will strip gold and gold alloys from all basis metal at unusually high speeds. There is little attack on base metals, such as iron, nickel, copper and their alloys, and the solution has the further advantage of room temperature operation. Up to 60 g/l (8 oz./gal.) of gold can be dissolved in the stripping solution, after which it is refined to salvage the gold.

ADVANTAGES

- Room temperature operation
- Rapid stripping rate
- Economical use
- Ease of operation

BATH MAKE-UP

CAUTION! Hazardous cyanide-containing chemical.

Chemicals required	Metric	(U.S.)
Deionized Water	500 ml/l	(50% v/v)
Super Strip 300	7.5 g/l	(1.0 oz./gal.)
Potassium Cyanide	18.75 g/l	(2.5 oz./gal.)

MAKE-UP PROCEDURE

CAUTION! Hazardous cyanide-containing chemical.

1. Add deionized water to a clean tank.
2. Add Super Strip 300 and mix thoroughly.
3. Add potassium cyanide and mix thoroughly.
4. Add deionized water to volume.

Note: Sodium cyanide can be used in place of potassium cyanide. If sodium cyanide is added, use 15 g/l (2 oz./gal.) for makeup.

BATH OPERATION

CAUTION! Hazardous cyanide-containing chemical.

Temperature: Ambient

Agitation: None to vigorous solution movement

Stripping Rate: 1–3 microns (40–120 microinches) per minute

When stripping gold from nickel and ferrous alloy base metals, the stripping rate can substantially be increased by increasing the potassium cyanide content to 22.5–37.5 g/l (3–5 oz./gal.). This formulation adjustment is not recommended for copper alloy base metals.

PRETREATMENT

Prior to immersing in the stripping solution, parts should be alkaline cleaned to remove oils or greases, then thoroughly rinsed.

AGITATION

The stripping rate varies with agitation and vigorous agitation will produce the highest stripping rate.

TEMPERATURE

The Super Strip 300 was formulated to operate at room temperature. Increasing temperature will increase stripping rate and is recommended when speed is of utmost importance. The temperature must not exceed 54°C (130°F) as this will shorten the life span of the strip solution.

BATH MAINTAINANCE

CAUTION! Hazardous cyanide-containing chemical.

When the stripping rate is reduced, add 7.5–15 g/l (1–2 oz./gal.) Super Strip 300 and 9.4–18.75 g/l (1.25–2.5 oz./gal.) potassium cyanide to restore the stripping rate. If sodium cyanide is used, add 7.5–15 g/l (1–2 oz./gal.) in place of the potassium cyanide.

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PRODUCT DATA

For the specific Product Data values, please refer to the Certificate of Analysis provided with the shipment of the product(s).

EQUIPMENT

Stainless steel, glass, suitable plastic or plastic lined tanks can be used. Agitation can be provided with a pump, solution mixer, work agitation or any other suitable device.

HANDLING PRECAUTIONS

Before using this product, consult the Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage.

WARNING! DO NOT ACIDIFY this product or working bath containing this product below specified operating pH range, or below pH 7 if no range is specified. Acidification may release highly toxic cyanide gas, which can be fatal if swallowed, inhaled or absorbed through the skin.

CAUTION! Keep combustible and/or flammable products and their vapors away from heat, sparks, flames and other sources of ignition including static discharge. Processing or operating at temperatures near or above product flashpoint may pose a fire hazard. Use appropriate grounding and bonding techniques to manage static discharge hazards.

CAUTION! Failure to maintain proper volume level when using immersion heaters can expose tank and solution to excessive heat resulting in a possible combustion hazard, particularly when plastic tanks are used.

STORAGE

Store products in tightly closed original containers at temperatures recommended on the product label.

DISPOSAL CONSIDERATIONS

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Rohm and Haas Electronic Materials Technical Representative for more information.

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