

E-STRIP 929

A NON-CYANIDE STRIPPER THAT STRIPS ELECTROLESS NICKEL AND OTHER NICKEL COATINGS FROM BRASS, COPPER, AND STEEL SUBSTRATES

The **E-STRIP 929** process consists of 2 products: **E-STRIP 929-P** and **E-STRIP 929-L**. **E-STRIP 929-P** and **E-STRIP 929-L** are used together for stripping most nickel deposits. This process is designed to strip nickel from brass, copper and steel without the use of toxic cyanide.

HOW TO USE

MAKE-UP (E-STRIP 929 PROCESS)

E-STRIP 929-P:	8 oz. per gal.
E-STRIP 929-L:	33% by volume
<u>Temperature:</u>	140-190 F.
<u>Equipment:</u>	Mild steel tanks
<u>Heating:</u>	Stainless steel heating coils
<u>Exhaust:</u>	Recommended to remove action mist

SOLUTION MAKE-UP

Begin by adding 40-50% by volume deionized water. Add the appropriate amount of **E-STRIP 929-L** to the tank and begin to heat to operating temperature. While

the process is heating add the appropriate amount of **E-STRIP 929-P**. Fill with water to operating solution level. Once the tank has reached desired operating temperature the bath is ready to strip.

REPLENISHMENT

Additions of **E-STRIP 929-L** and **E-STRIP 929-P** can lengthen the life of the stripper when strip rates are unacceptable. Replenishment additions of **E-STRIP 929-L** should not exceed a total concentration of 50% (17% more) and replenishments of **E-STRIP 929-P** should not exceed a total concentration of 16 oz/gal (8 oz/gal more). After these concentrations have been achieved, further additions will not be effective.

TIME

Stripping times will vary depending upon thickness and type of nickel being stripped. A non-adherent smut will develop upon the surface of the work which will often disappear with longer immersion times and can be removed in a subsequent cleaning cycle. These smuts are more pronounced in higher sulfur-based nickel deposits. Always run the bath at the highest operating temperature in order to keep the smut formation in a less adherent state.

CONTROL: VISUAL

When stripping nickel from brass, caution has to be exercised in **not over stripping**. A sulfur-based inhibitor system built in to the **E-STRIP 929-L** formulation is only effective for limited exposure to this base substrate. When stripping action slows down, add 2-4 oz. per gal. Additional **E-STRIP 929-P** to reactivate the solution. When stripping rates again slow down, it is best to discard and make up a new solution.

It is important that part being stripped is kept fully submerged in stripping solution at all times or part can be etched at the air-solution interface where oxidation occurs.

CAUTION

Since the **E-STRIP 929** process deals with 2 products, each product is addressed separately:

E-STRIP 929-P is a yellowish powder, an alkaline salt of a nitrated organic acid. Avoid skin, eye and oral contact. Wear protective goggles, clothing and gloves when handling this product.

E-STRIP 929-L is an ethylenic amine mixture, moderately alkaline. Completely avoid skin, eye and oral contact. Always use protective clothing, gloves and chemical resistant goggles with side face shields when handling this product.

WASTE DISPOSAL

E-STRIP 929 solutions may be discarded by neutralizing the alkaline residues to a pH of 8-9, then precipitating out the excess metal sludge for separate treatment. Treat the neutralized residual with a carbamate mixture to reduce the remaining metallic contents to an acceptable standard.

STANDARD PACKAGING

E-STRIP 929-P 200 lb. drum

E-STRIP 929-L 55 gal. drum

IMPORTANT NOTICE! For Industrial Use Only

The following is made in lieu of all warranties, expressed or implied, including the implied warranties of merchantability and fitness for purpose: seller's and manufacturers only obligation shall be to replace such quantity of the product as proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. **Neither seller nor manufacturer shall be liable either in tort or in contract for any loss or damage, direct, incidental or consequential, arising out of the use or the inability to use the product.**

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