



# PT. SINAR CEMARAMAS ABADI

- VERCOPPER (ACID / CYANIDECOPPER)
- VERNICKEL
- VERCHROME
- VERZINC ACID / CYANIDE ZINC
- CLEANER (ELEKTRO / SOAK)
- PHOSPHATING
- CHROMATING
- ELECTROLESS NICKEL

#### FOR HIGHTECT ELECTROPLATING :

- ELECTROLESS NICKEL PLATING FOR ALUMINIUM AND ZINC DIE CAST, MAGNESIUM
- GOLD PLATING
- PTFE FORELECTROLESS NICKEL
- HARDCHROM
- SAND CAST ALUMINIUM ALLOYS PLATING
- MAGOXID - COAT FOR PROTECTING MAGNESIUM SUBSTRATES

- KEPLA - COATING FOR ALUMINIUM AND TITANIUM ALLOYS
- ELECTROLESS NICKEL PLATING WITH INTEGRATED SILICON CARBIDE PARTICLES (SIC)

- GLISS - COAT  
A CLEAN SOLID FILM LUBRICATION FOR A MAINTENANCE FREE PERMANENT LUBRICATION OF ALL KIND OF FRICTION PAIRINGS
- SEPA - COAT  
(ANTI ADHESIVE COATING AND ACTIVATOR) FOR THE REMOVAL OF PART FROM MOULDS

## HR AG 107

### PASSIVATION BATH FOR SILVER

#### 1. PROPERTIES

HR AG – 107 is an electrolytic passivation bath for silver which deposits a transparent, colourless protective coating on silver Electroplate. The coating gives valuable and effective protection against atmosphere containing Hydrogen sulphide, and in this way prevent darkening of the metal. This passivation has no appreciable effect on the solderability and electrical conductivity of the silver and for most application this very slight diminution is of no importance.

#### 2. MAKE – UP

HR AG – 107 is supplied as a concentrate and is used by simply distilled water. For making the solution one part of concentrate is to be diluted with three parts of water.

#### 3. OPERATING CONDITIONS :

Concentration	: 220 – 270 ml/ltr.
pH	: 8.0 – 9.0
Temperature	: 25 – 30°C.
Current Density	: 10 – 45 A/ sq.ft.
Voltage	: 3 – 7 V
Time	: 2 –5 minutes.

#### *Head Office* :

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## 4. ANODES

Stainless Steel anodes are used and the anode/ cathode area ratio should be 1:1.

## 5. RINSING & DRYING:

After passivating, the parts are well rinsed and dried in warm air. The water for rinsing should have a pH value of atleast 6.0.

## 6. MAINTENANCE:

Generally the bath requires no special control. The bath efficiently can be checked as follows:

A sample passivated in HR AG – 107 should withstand 15 minutes immersion in a 2% Potassium polysulfide solution without the slightest alteration in appearance.

## 7. HR AG –107 PASSIVATION IN BARRELS

HR AG – 107 is also suitable for the passivation of small parts in barrels. The voltage applied should be about 6 – 8 volts and time 5 to 10 minutes. Since the passivation film is extremely delicate, the work load should not be too large or heavy and the parts should be place carefully in the order.

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