



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

ELECTRO CLEANER HR 13

PROPERTIES

ELECTRO CLEANER HR 13 is a multi-purpose electrolytic cleaning compound for iron and steel with the following advantages :

- **ELECTRO CLEANER HR 13** can be used as pre-treatment for chemical Nickel plating.
- **ELECTRO CLEANER HR 13** dispose of very good emulsifying power, also by use of hard water.
- It is effective already at lowest temperatures.
- **ELECTRO CLEANER HR 13** shows a good conductivity at all temperatures range. Due to its high alkali content there are no burnings at high current density range.
- **ELECTRO CLEANER HR 13** enhances the adhesion for further deposits and promotes corrosion-resistance of coatings.
- A light foam on bath surface prevents splashing and let even escape gases.

BATH MAKE-UP FOR 100 LITRES

ELECTRO CLEANER HR 13

: 4,5 – 12 Kg

To dissolve completely the required quantity of **ELECTRO CLEANER HR 13** in warm water (about 40° C) under stirring and heat up to working temperature. After that the bath is ready for use.

WORKING CONDITION

Temperature	: 50 – 70 ° C
Current density	: 4 – 5 A/dm ² anodic/cathodic
Immersion time	: 1 – 3 minutes
Anodes	: 4 – 5 V

EQUIPMENT

Containers : Iron-, steel- or polypropylene

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