



# PRODUCT BROCHURE

*"High Standard Quality, Competitive Price,  
and After-sales Services"*

# PRODUCT

## PRE-TREATMENT

Pre-treatment stands as an important initial step to ensure the material surface is optimally prepared before undergoing the plating process. The following are the products we offer:

### Steel, Iron, & Alloy

- DESCALING SALT HR
- SOAK CLEANER HR 12
- SOAK CLEANER HR F7
- ELECTRO CLEANER HR 13
- SOAK CLEANER HR 14

### Aluminium & Zinc Die-Cast

- DEGREASER HR 16

### Zinc Phosphating

- HR CLEANER
- HR 7 SURFACE CONDITIONER

### Pickling

- HR 30 ACID PICKLING

### Brass

- SOAK CLEANER HR 15

## ZINC PLATING ADDITIVE

Zinc Plating is a process aimed at protecting metals from corrosion, making the appearance of iron or steel last longer while providing high levels of brightness and flatness. The following additives are the products we offer:

### Alkaline Zinc

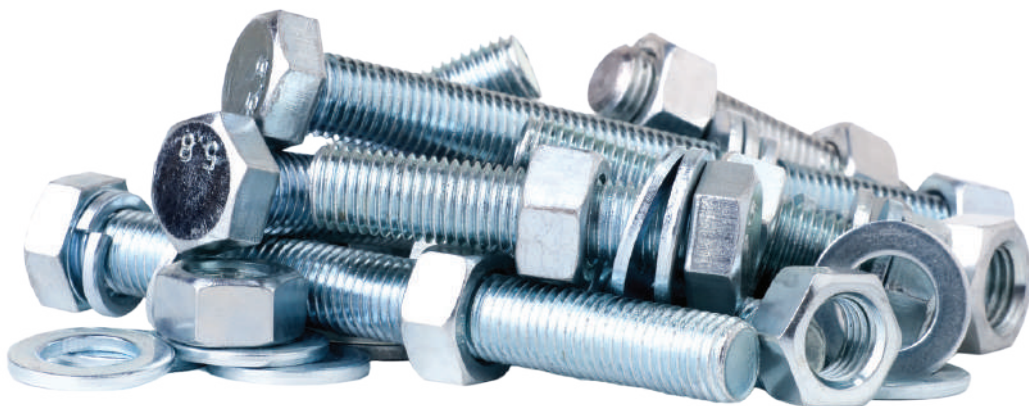
- HR 2015
- HR 240

### Acid Zinc

- HR 2014
- HR 2014 W
- ANTIFOAM

### Cyanide Zinc

- HR 220 SC
- HR 330 SC
- HR 440 SC



## CHROMATING

Chromating can be used to protect metal surfaces from corrosion and prevent component damage. It is also used to create a decorative finish with various colors, which provides an attractive finish. The following additives are the products we offer:

### Trivalent Blue Chromating

- HR 017
- HR 018

### Trivalent Black Chromating

- HR 034
- HR 691
- SEALER HR 591
- TOP BLACK HR 291

### Trivalent Rainbow Chromating

- HR 048

### Sealer

- SEALER HR 449

### Hexavalent Blue Chromating

- ISOCHROME 10 LIQUID
- ISOCHROME 10 POWDER

### Hexavalent Black Chromating

- ISOCHROME 28

### Hexavalent Rainbow Chromating

- ISOCHROME 25 POWDER

### Hexavalent Olive Green Chromating

- GREEN CHROMATING / HR 8

## COPPER PLATING ADDITIVE

Copper Plating is an electrochemical process that utilizes electric current to produce a bright layer of copper with smooth surface and high ductility. The following additives are the products we offer:

### Cyanide Copper

- HR 50

### Acid Copper

- HR 375

## ALUMINIUM ADHESION PICKLE ZINCATE PROCESS

This step is known as a pre-treatment stage that helps to prepare aluminum before the electroplating and electroless process. The following are the products we offer:

- NICAL





## **NICKEL PLATING ADDITIVE**

Nickel Plating is a process of covering metal objects with a protective layer of nickel. The nickel layer will appear shiny, elastic, and smooth, which is also used for decorative purposes. Additionally, nickel plating also makes the metal resistant to corrosion. The following additives are the products we offer:

- NEW BRIGHT 100 RS
- NITEC Z

## **CHROME PLATING ADDITIVE**

Chrome Plating is a coating product that augments durability of metals against corrosion and enhances its aesthetic appearance. This coating is widely utilized in the automotive industry. The following additives are the products we offer:

- HR 75 CATALYSER

## **HARD CHROME**

Hard Chrome is the process of coating metal with chromium materials to produce products with better hardness level, smoother surface and decorate the appearance of the metals. The following additives are the products we offer:

- HR 80
- HR MIST

## **ELECTROPOLISHING**

Electropolishing is the chemical process of polishing stainless steel with the aid of electrical current flow. This procedure smoothens both the upper and lower surfaces to diminish rough textures on the surface and enhance the appearance of stainless steel. The following are the products we offer:

- ISOPOL 140

## **ZINC PHOSPHATING**

Zinc Phosphating is a metal coating process employing zinc with the objective of enhancing metal surface corrosion resistance. This process forms a primer layer and enhances paint adhesion on metal materials. The following are the products we offer:

- HR 01

## STRIPPER

Stripper is a product that removes tin or nickel plating layers from the metal materials to restore the metal to its original state. The following are the products we offer:

- HR STRIPPER NICKEL
- HR STRIPPER SN

## ELECTROLESS NICKEL

Electroless Nickel is a metal plating process involving nickel deposition that does not rely on electrical energy assistance. This process results in layers with excellent corrosion resistance and is commonly employed in the automotive and aviation industries. The following are the products we offer:

### Lead & Cadmium

- HR 101
- HR 103
- HR 105
- PH CONTROLLER

### Lead & Cadmium Free

- HR 108
- HR 110



## EQUIPMENT

We offer a wide variety of electroplating equipment to make the process as easy and hassle-free as possible. Following the products we offer:

- CATRIDGE BAG 50 CM
- CATRIDGE FILTER 50 CM
- SST
- RECTIFIER
- CENTRYFUGAL DRYER ELEMENT ATAS
- HEATER
- THICKNESS METER
- HULL CELL TEST

## BLACKENING

Blackening is a simple and cost-effective process that not only enhances the appearance of the iron surface that gives a black color but also improves its corrosion resistance and helps prevent any rusting or wear. Here are the products we offer:

- HR BLACKENING



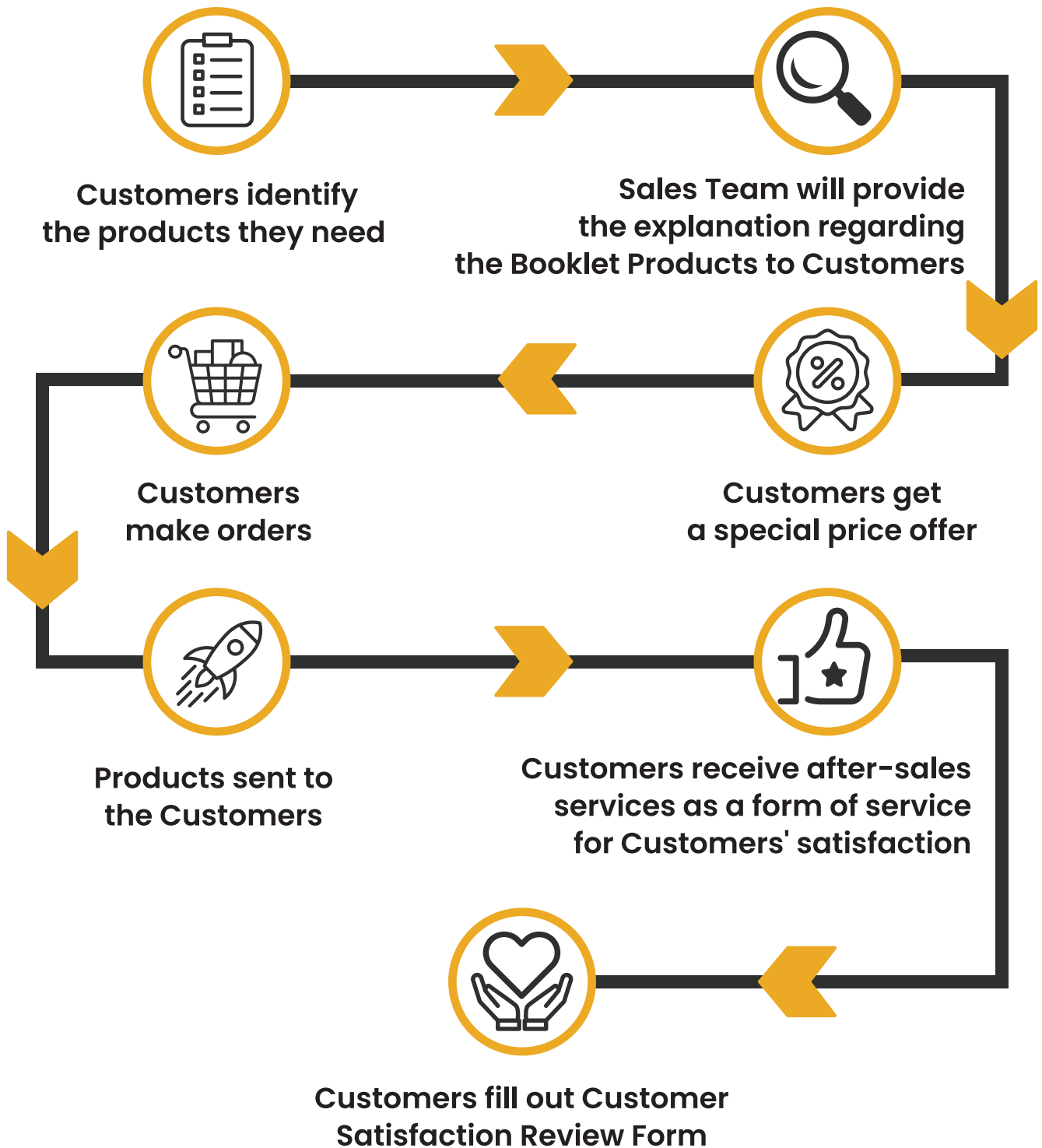
## GENERAL CHEMICAL

We offer several types of products to support the electroplating process. Following the products we offer:

- AMMONIUM CHLORIDE
- BORIC ACID
- CAUSTIC SODA
- COPPER PLATE FOR ACID
- COPPER SULPHATE
- CHROMIC ACID
- HCl (HYDROCHLORIC ACID)
- H<sub>2</sub>SO<sub>4</sub> (SULFURIC ACID)
- H<sub>2</sub>SO<sub>4</sub> LOW FE
- NICKEL CHLORIDE
- NICKEL SQUARE
- NICKEL SULPHATE
- NITRIC ACID
- POTASSIUM CHLORIDE
- POTASSIUM HYDROXIDE
- SMBS
- SODIUM NITRATE
- SODIUM NITRITE
- ZINC ANODE
- ZINC DUST
- ZINC CHLORIDE
- ETC



# CUSTOMER JOURNEY MAP







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