TECHNOLOGIES AND PROCESSES FOR INDUSTRIAL PLATING APPLICATIONS

PRE TREATMENTS
CHROME
ELECTRO-LESS NICKEL
BRIGHT NICKEL
ZINC & ZINC ALLOY, PASSIVATION, SEALERS
ACID AND ALKALINE COPPER
ANCILLARY PRODUCTS
PRE TREATMENTS: NEATECH System

Liquid cleaners specifically formulated to be highly concentrated, designed to perform on any type of substrate.

NEATECH System allows:
• using a limited number of products in makeup and maintenance of degreasing solutions.
• the combination of few additives allows to fulfill the entire pretreatment cycle.
• avoiding dust formation during the preparation of work solutions.
• eliminating or minimization of the handling of packaging materials.
It is compatible with (and suggestable for) continuous automatic dosing.

CHROME: HARSH and DECRO Systems

Hard Chrome

HARSH System is the most advanced HC technology to eliminate micro-porosity and nodules for enhanced NSS corrosion performance. It is suitable for Hydraulic bars application as well as Automotive Shock Absorber, Rotor & Engineering.

By using HARSTOP fume suppressor, HARSH System is totally mist free.
HC process without foam or pinhole issues. PFOS free.

Decorative Chrome

DECRO System is a self-regulated decorative chroming process with liquid catalyst. It offers the advantage of a harder and shinier deposit than conventional systems.

ELECTROLESS NICKEL: NIDIP System

NIDIP System offers low, medium and high Phos EN processes.

Main High Phos process features:
• superior deposits passing the nitric acid test
• unique long life formulation
• excellent corrosion resistance
• excellent bath stability
• high ductility
• minimal porosity over 30 μm
• suitable for high thickness applications (> 200 μm)
• compressive stress (-10 N/mm² to – 40 N/mm²)

NIDIP PTFE:
• high plating rate
• PFOS free
• ability to plate high thickness
• free of “orange skin” defect

BRIGHT NICKEL: NIGLOSS System

Last generation of bright Nickel process.

NIGLOSS with its component brightener system provides unmatched flexibility in terms of levelling and throwing power.

NIGLOSS users benefit by reducing total Nickel layer thickness because of excellent throwing power and the possibility to use less expensive base materials because of high levelling.

CRC - CORROSION RESISTENT COATING

ZINC & ZINC ALLOY:
• ZIGRANT System
  Acid & Alkaline Zinc (CN free)
• ZIPRO System
  Zinc-Nickel

PASSIVATION:
• ZIFEND System
  • blue
  • clear iridescent
  • yellow
  • black
  • green
  • hexavalent

SEALERS:
• ZILAST System
  • organic and inorganic sealers
  • friction Control

COPPER

ALKALINE COPPER: CUBASE System
• ideally suitable for zinc base die-castings
• rack and barrel applications
• smooth bright deposits specially used for high current density operations

ACID COPPER: DECOP System
• highly ductile and extremely bright deposits.
• bath can be operated at wide bath temperature range 20 – 35 °C.

ANCILLARY PRODUCTS
• aluminum surface preparation
• blackening solution for copper and copper alloys
• acid activator salts
• acid-dip additives
• metal strippers
• antifoams
Our Best-in-class Philosophy

1. SERVICE & TECHNICAL SUPPORT
   Our technical service is dedicated to optimizing the use of each product in the specific customer application, in order to achieve the best results and meet customer expectations.

2. QUALITY FIRST
   We believe in the importance of automation in process management, using automatic dosing / integration systems. We collaborate with our customers to provide all the information needed for this purpose.

3. QUICK ANALYTICAL SUPPORT
   Our in-house lab offers plating and chemical analysis ranging from chemical titration to metallic examination through the means of ICP. We understand the chemistry of our plating solution and are confident in what necessary additions to make both organic and inorganic, to keep chemistry in good health.

4. TESTED PLATING DEPOSIT QUALITY
   Legor Group offers a variety of testing procedures to back the quality of our metal coatings. Using testing methods based on international normative compliance, we know how our plating solutions perform in a wide range of tests.

Company Certifications

Worldwide Branches & Commercial Offices in Italy

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The Legor Lab
Legor Group has an in-house R&D Laboratory equipped with the latest technologies and sophisticated analytical instruments. Here, the team of technicians and engineers study, design and test formulations on a daily basis in order to anticipate and meet customers’ needs and transform creative ideas into innovative targeted products.

In Legor Group innovation is a strategic business advantage.

This has led to achieved an undisputed market recognition and leadership in the industry. The results attained are reflected in the numerous patents registered, the many International recognitions and the global collaboration network between industry experts, universities and research centers.