

INSIDER

ISSUE 05

For Internal Circulation Only

PSSPL News

VISIT US AT INDIA'S BIGGEST SHOW



INDIA FASTENERS SHOW,

The biggest event for the fasteners industry, returning to Pune from **November 22-24, 2024**, at the Pune International Exhibition and Convention Centre. Visit our booth to experience cutting-edge products and services that drive efficiency and performance across the fasteners industry.



MACHINE TOOLS & AUTOMATION TECHNOLOGY,

Taking place from **February 21-24, 2025**, at G.T. Road Sahnewal, Ludhiana Exhibition Centre. At this premiere event Psspl will showcase its vast product range and advancements. Visit us at our booth to connect with our technical experts and stay tuned for more details leading up to the show.

Product Focus : E-COATING

☆**ASTARCLAD**☆ Specially designed for lacquering fittings and accessories in these leather goods market sectors

Saddlery and Tack (saddles, bridles, harnesses etc.)

Footwear (shoes, boots, sandals etc.)

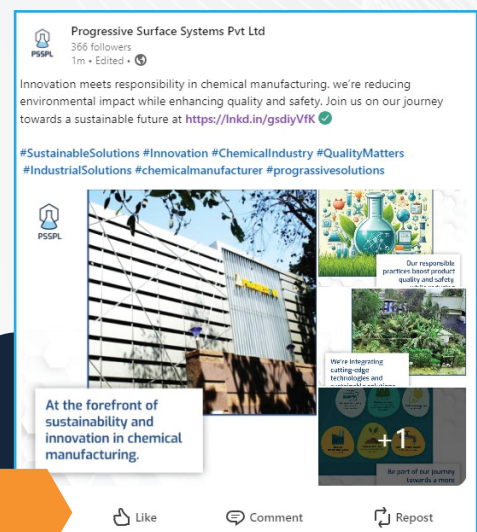
Fashion (bags, belts, apparel etc.)

Unique PSSPL Resin System has all the properties for the leather market

- Highly resistant to leather acid, tanning chemicals and dyes.
- Hard, tough and abrasion resistant.
- High transparency and non-yellowing



Follow Us On Social Media



Active Involvement

(PSSPL) is actively engaging its audience on social media platforms like Twitter and LinkedIn, sharing details about its specialized chemical products. PSSPL focuses on pretreatment chemicals, primary plating chemicals, and other surface finishing solutions, catering to industries such as automotive and construction. The company uses its social channels to highlight product benefits, including efficiency, sustainability, and innovative surface treatment technologies.

Follow us on the below accounts

Twitter handle:
psspl_surface

LinkedIn account:
Progressive Surface Systems Pvt Ltd



NEW LAUNCH

Auridior

Plating Process for Gold



AURIFLASH – 7 ST

Auriflash – 7 ST is a gold electroplating process that produces 99.9% pure gold deposits, ideal for both rack and barrel applications. It is widely used in industries requiring high-purity gold, such as jewelry, statutory items, bathroom hardware, watch case accessories, optical goods, and semiconductor and electronic devices. Auriflash – 7 ST is commonly used as a flash plating layer before micron gold plating, ensuring a superior final finish. This process is valued for its versatility, providing consistent and reliable gold coatings across a variety of high-end applications.

AURIFLASH – 10

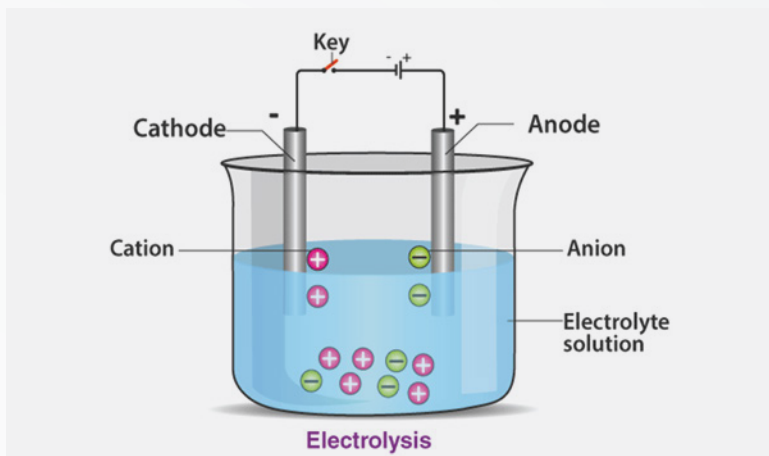
This bath formulation is designed to produce a 24K gold color with exceptional uniformity across all surface areas in a short time. The process ensures a homogeneous deposition, achieving a maximum thickness of just 0.1 micron, which efficiently minimizes gold waste. Its easy handling and reliable performance make it a preferred choice for applications requiring consistent gold coloration. Whether used for decorative or functional purposes, this formulation delivers outstanding results, ensuring that all surfaces receive an even, brilliant gold finish without unnecessary resource expenditure.

RANGE OF FLASH Gold Deposition Processes

AURICID – 8020(Au/Cu)

The AURICID 8020 (Au/Cu) Gold Plating Process is an advanced alkaline cyanide-based method designed to produce high-quality gold deposits with a striking 5N color. This process is notable for delivering bright, ductile finishes, making it ideal for various applications requiring both aesthetic appeal and functional durability. The low gold content of AURICID 8020 ensures that it remains economically viable, offering cost-efficiency without sacrificing quality. Additionally, this process provides excellent deposit distribution, ensuring consistent coverage across all plated surfaces.

AURICID 8020 is versatile and suitable for both rack and barrel plating techniques, allowing for flexibility in production methods. Whether used for small, intricate parts or larger components, this gold plating process meets the demands of diverse industries, including electronics, jewelry, and decorative applications. Its ease of operation and reliable performance make AURICID 8020 a preferred choice for manufacturers seeking a balance between quality and cost-effectiveness in their gold plating needs.



SERIES 3

BASICS OF ELECTROPLATING

In Continuation From Last Issue

29. WHAT IS A METAL ANODE?

A metal anode is the positive electrode in a plating solution. The direct current enters and electrons leave the solution through the anode thereby converting the metal anode into metal ions. Metal anodes of the desired composition are made by casting, rolling, or electroforming.

30. WHY ARE SOLUBLE METAL ANODES USED IN ELECTROPLATING?

Soluble metal anodes are used in electroplating to replenish the metal ions that have been plated out of the solution. They may be composed of only one metal or an alloy of several metals. Thus, high-purity nickel anodes are used in nickel plating whereas copper-zinc alloy anodes are used in brass plating.

31. WHAT ARE THE VARIOUS FORMS OF SOLUBLE ANODES?

Soluble anodes may be cast, rolled, or extruded with an elliptical cross-section in various lengths. Electrodeposited sheets of various metals can be used as anodes but they often corrode unevenly and form many loose particles. Ball anodes made by shearing forged extruded or rolled sections are usually used in bare steel cages in alkaline cyanide solutions. They form little scrap and tend to maintain constant anode area.

32. CAN INSOLUBLE ANODES BE USED IN ELECTROPLATING?

Yes, insoluble anodes may be used in electroplating but the current removes metal ions from the solution. This necessitates replenishment of the solution with metal salts. In chromium plating, where insoluble lead anodes are used, regular additions of chromic acid are required. Similarly, additions of potassium gold cyanide are necessary for gold plating solutions using insoluble stainless steel anodes.

33. WHAT ARE THE NECESSARY REQUIREMENTS FOR INSOLUBLE ANODES?

Since insoluble anodes serve the sole function of carrying electrical current into the plating bath they must satisfy two requirements, namely, they must have good electrical conductivity and they must not be chemically attacked by the plating solution.

INDUSTRIAL NEWS

Ford to consider proposal for India re-entry

New Delhi - Ford, the American automaker, may make a comeback into India. Jim Farley, the CEO, is expected to review a new plan that outlines a new approach for the Indian market. In 2021, the firm left India. According to individuals who spoke with TOI, the re-entry would involve fresh investments, an emphasis on sustainability and electrics, as well as work on export manufacturing.

"A study on the market's development potential and the viability of reentering India has been completed. At this point, the worldwide team at Ford's headquarters will take this into consideration. We anticipate a favorable reaction," the insider stated. Ford, which has made over \$2 billion in investments in India, has had success with models like the eco sport small SUV.

Toyota to set up 25,000 Cr plant in Sambhajinagar

Motor (TKM) and the Department of Industries, Maharashtra government, will sign a Memorandum of Understanding (MoU) on Wednesday to enable the business to establish a Rs 25,000 crore car facility in Chhatrapati Sambhajinagar. The choice of Toyota Kirloskar Mo-1.4L acres freehold, P5 to invest in Maharashtra is significant. Maharashtra has once again been proven to be a preferred location for investment, deputy chief minister Devendra Fadnavis told TOI.

Fadnavis has been pursuing the investment in Sambhajinagar with TKM, which will aid in the development of the Marathwada region.

According to authorities, the new unit would create direct employment for 8,000 people, while 16,000 more people will find work in.

Badhai Ho! PSSPL BIRTHDAY BULLETIN

4th September - Deepak Dhiman

24th September - Harsh Rajnikant Shah

28th September - Sushil Kumar



MDs CORNER

ZINC SHIELD



LAUNCHING ZINC NEW GENERATION ALKALINE NON-CYANIDE ZINC ZPN 200

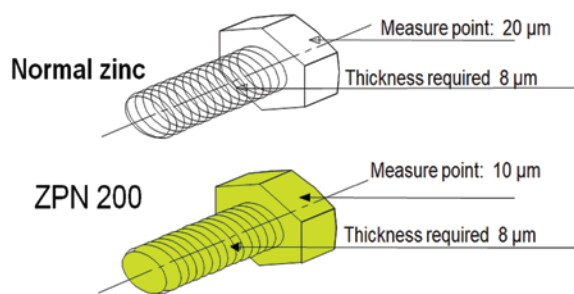
ZINC ZPN 200 is an advanced non-cyanide alkaline zinc plating process designed to deliver highly bright zinc surfaces with exceptional corrosion protection. This innovative process eliminates the need for hazardous cyanide, making it safer for both the environment and the workforce. The ZINC ZPN 200 process is optimized to produce uniform and consistent zinc deposits, ensuring a high-quality finish that enhances the appearance and durability of metal components.

One of the key benefits of ZINC ZPN 200 is its ability to achieve superior brightness, resulting in an aesthetically pleasing finish that is ideal for decorative applications. Moreover, the process provides excellent corrosion resistance, protecting the underlying metal from rust and extending the lifespan of the coated parts. This makes ZINC ZPN 200 suitable for a wide range of industries, including automotive, electronics, and consumer goods, where both appearance and durability are crucial.

In addition to its technical advantages, ZINC ZPN 200 is easy to implement and maintain, offering reliable performance with minimal operational challenges. Its environmentally friendly composition further enhances its appeal, aligning with modern sustainability goals. Overall, ZINC ZPN 200 represents a robust, efficient, and eco-conscious solution for high-performance zinc plating needs.

ZINC ZPN 200

- Throwing power



OUR FACILITY

Zero Liquid discharge



PSSPL Garden

