

## Electroless Plating Fundamentals And Applications

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### **Electroless Plating Fundamentals And Applications**

Electroless plating, also known as chemical plating or autocatalytic plating, is a class of industrial chemical processes that create metal coatings on various materials by autocatalytic chemical reduction of metal cations in a liquid bath. This class is contrasted with electroplating processes, such as galvanization, where the reduction is achieved by an externally generated electric current.

### **Electroless plating - Wikipedia**

Electroless copper plating is a chemical process that deposits an even layer of copper on the surface of a solid substrate, like metal or plastic. The process involves dipping the substrate in a water solution containing copper salts and a reducing agent such as formaldehyde.. Unlike electroplating, electroless plating processes in general not require passing an electric current through the ...

### **Electroless copper plating - Wikipedia**

Electroless nickel plating is also known as chemical or autocatalytic nickel plating. The process uses chemical nickel plating baths. The most common electroless nickel is deposited by the catalytic reduction of nickel ions with sodium hypophosphite in acid baths at pH 4.5–5.0 at a temperature of

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85–95°C. The bath can contain PTFE.

### **Nickel Plating - an overview | ScienceDirect Topics**

applications with fatigue loads include heavy case-hardened steels and flame- or induction-hardened steels. Nonetheless, coatings and overlays can be effective in some applications. With tool steels, for example, TiN and Al<sub>2</sub>O<sub>3</sub> coatings are effective not only because of their hardness but also because their chemical inert-

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