

Non-Cyanide Electrolytes for Gold Plating – A Review

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Nowadays, the cyanide and ferrous cyanide solutions are used in practice for gold plating. The traditional baths employed for soft gold as well as hard gold plating contain the cyanide complex, $[\text{Au}(\text{CN})_2]^-$, as the source of gold, which release free cyanide ions during the plating. Those compounds are very toxic, and formation and maintenance of cyanide baths is expensive and risky for technical personnel; also, they attack photoresists used to delineate circuit patterns and bonding pads. Due to this reason, and especially in modern time, there is a trend of using the electrolytes without content of cyanides. These electrolytes are mainly based on some organic compounds. This article is an overview of the non-cyanide electrolytes for gold plating introduced into practice or only tested in the laboratory. The large number of investigated complexes fulfils the coating quality requests, but there are problems related to their stability. Decorative gold plating obtained from classic cyanide electrolyte and an electrolyte based on mercaptotriazole have shown similar characteristics such as microhardness, surface roughness, visual appearance and adhesion. At the same time, this bath remained stable in a period of at least nine months.

Keywords: Electroplating, Gold baths, Stability constants, Complexing ligands, Photoresists, Soft gold

1. INTRODUCTION

The history of gold deposition began in the early nineteenth century when many art objects were electroplated with gold. It has been traced to the early work of Brugnatelli in 1805 [1]. Gold electroplating formulations based on the double salt gold potassium cyanide was patented in 1840. Since then, many types of gold formulations have been produced to meet the market requirements. Due to the changing trends in fashion, the application of certain colours or shades of the electroplated gold can only last for about forty years [2, 3]. The electronics industry began its development in the 1940's and 1950's; during this period, platters faced new demands for deposits with different properties,

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Chemical Resistance of Thermosets Erwin Baur,Katja Ruhrberg,William Woishnis,2018-04-27 Chemical Resistance of Commodity Thermoplastics provides a comprehensive cross referenced compilation of chemical resistance data that explains the effect of thousands of reagents the environment and other exposure media on the properties and characteristics of thermosets plastics which are used in a range of applications Specifically the resistance data in this book covers the following materials allyl epoxy unsaturated polyester resin unsaturated polyurethane resin vinyl ester resin furan resin polyaminobismaleimide acrylics polycyanurates and filled reinforced thermosets A huge range of exposure media are included from aircraft fuel to alcohol corn syrup hydrochloric acid and salt to silver acetate This book is a must have reference for engineers and scientists designing and working with thermosets in environments where they come into contact with corrosive or reactive substances from automotive and aerospace to coatings adhesives electrical insulation fittings and other applications Presents comprehensive comparable and trustworthy chemical resistance data for thousands of exposure media on the properties of thermosets Includes coverage of ionomers polyethylene polypropylene polystyrene PVC and other polyolefins and polyesters Provides a must have reference for engineers selecting materials for a range of application areas using thermosets including aerospace automotive chemical process industries coatings and adhesives

Modern Technology of Acid Slurry, Surfactants, Soap and Detergents with Formulae , Official Gazette of the United States Patent and Trademark Office ,1996

Modern Electroplating Mordechay Schlesinger,Milan Paunovic,2014-12-22 The definitive resource for electroplating now completely up to date With advances in information age technologies the field of electroplating has seen dramatic growth in the decade since the previous edition of Modern Electroplating was published This expanded new edition addresses these developments providing a comprehensive one stop reference to the latest methods and applications of electroplating of metals alloys semiconductors and conductive polymers With special emphasis on electroplating and electrochemical plating in nanotechnologies data storage and medical applications the Fifth Edition boasts vast amounts of new and revised material unmatched in breadth and depth by any other book on the subject It includes Easily accessible self contained contributions by over thirty experts Five completely new chapters and hundreds of additional pages A cutting edge look at applications in nanoelectronics Coverage of the formation of nanoclusters and quantum dots using scanning tunneling microscopy STM An important discussion of the physical properties of metal thin films Chapters devoted to methods tools control and environmental issues And much more A must have for anyone in electroplating including technicians platers plating researchers and metal finishers Modern Electroplating Fifth Edition is also an excellent reference for electrical engineers and researchers in the automotive data storage and medical industries

Plating ,1970

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environmental issues The uniqueness also lies in exploring the concepts of converting waste into resources in the form of bioenergy biofertilizers through various biological methods Given the international scenario the chapters of this book are designed to include both anaerobic and aerobic methods of resource recovery from the industrial wastewater The book is a step toward design with nature and the concept of green chemistry Waste menace is one of the most voiced and unsolved problems in the entire world The whole world is facing the threat of water pollution soil pollution land pollution odour pollution from the growing waste Though we find many missions and programs at international national and regional level to solve the waste associated issues this is mostly in context with the solid fraction of the waste Very little is being done to manage the liquid part of the waste or what we call the wastewater The conversion of wastewater has the potential to be converted to energy in the form bioenergy bio fertilizers electricity nutrient recovery etc The use of sludge as biofertilizers solves the problem of sludge management on the one hand and production of organic crops on the other The biological treatment methods like sludge treatment gives the farmers the source of biofertilizers and organic manure for the plants In the present scenario energy crisis is also one of the issues that we are facing particularly in context with the thermal power plants which are environmentally highly polluting Through various techniques like microbial fuel cells or biohydrogen we get a source of cleaner energy So through this book we try to produce the content and information to give the audience an understanding of the waste water as one of the environmental and health issues and mitigation strategies The book gives a sufficient understanding of how waste can be turned into a resource

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Hashmi,2016-08-29 Finish Manufacturing Processes are those final stage processing techniques which are deployed to bring a product to readiness for marketing and putting in service Over recent decades a number of finish manufacturing processes have been newly developed by researchers and technologists Many of these developments have been reported and illustrated in existing literature in a piecemeal manner or in relation only to specific applications For the first time Comprehensive Materials Finishing Three Volume Set integrates a wide body of this knowledge and understanding into a single comprehensive work Containing a mixture of review articles case studies and research findings resulting from R Finish Machining Processes by which a small layer of material is removed from the surface by various machining processes to render improved surface characteristics and Surface Coating Processes by which the surface properties are improved by adding fine layer s of materials with superior surface characteristics Each of these primary finishing processes is presented in its own volume for ease of use making Comprehensive Materials Finishing an essential reference source for researchers and professionals at all career stages in academia and industry Provides an interdisciplinary focus allowing readers to become familiar with the broad range of uses for materials finishing Brings together all known research in materials finishing in a single reference for the first time Includes case studies that illustrate theory and show how it is applied in practice

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