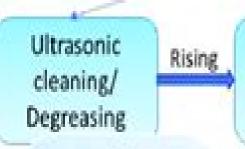
# Phosphating process

Rising

# Surface preparation



Surface activation/ Pickling

Phosphating

Drying

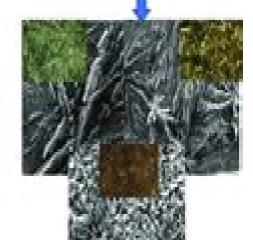
Rising

- Ultrasonic cleaning with:
- Acetone:
- Alcohol (ethanol) etc.
- Degreasing by immersing in:
- KOH based solution;
- NaOH based solution;
- Na<sub>2</sub>CO<sub>3</sub> based solution;
- Nonylphenol;
- Trichloroethylene etc.

- Pickling with:
- HCl based solution:
- H<sub>2</sub>SO<sub>4</sub> based solution etc.
- Surface activation with:
- Colloidal titaniumbased solution;
- Hydrofluoric acid;
- · Phosphoric acid:
- · Nickel acetate:
- Sodium silicate:
- Oxalic solution etc.

- Phosphote solution based on metallic ions such as zinc, manganese, iron etc.
- Methods: immersion or pulverization
- ♦ The temperature of the phosphoting solution between 20÷99 °C
- Phosphating time between 1 ÷90 minutes.

- Evaporation
- Hot air drying (oven)



# **Phosphating Of Metals**

**Albert A Gayle** 

#### **Phosphating Of Metals:**

The Phosphating of Metals Werner Rausch, 1990 **Phosphating and Metal Pre-treatment** Dennis Brian **Phosphating of Metals** Guy Lorin, Frank Herbert Reid, 1974-01-01 Freeman, 1986 **Advanced Coatings for the** Corrosion Protection of Metals Diana Petronela Burduhos-Nergis, Dumitru-Doru Burduhos-Nergis, Simona-Madalina Baltatu, Petrica Vizureanu, 2022-01-05 The corrosion protection of metallic materials is of great importance in many fields especially also when it comes to environmental issues The book focuses on organic and inorganic coatings metallic coatings and new methods for the deposition of protective thin layers Coating techniques and methods for testing and assessing corrosion behavior are presented Keywords Anticorrosion Coating Metal Corrosion Electrochemical Corrosion Biochemical Corrosion Atmospheric Corrosion Underground Corrosion Aqueous Corrosion Corrosion Involving Mechanical Stress Microbiological Corrosion Metal Passivation Metallic Layers Spray Metal Coatings Diffusion Coatings Cladding Coatings Inorganic Layers Organic Layers Phosphating Oxidation Chromating Enamelling Painting Varnishing Bituminous Coatings Protective Thin Layers PVD Method Layers by Thermal Evaporation Cathodic Spray Deposition CVD Method Wear Resistant Corrosion Control Technologies for Aluminum Alloy Vessel Zhigang Thin Layers Decorative Thin Film Deposition Fang, Jingyi Cao, Yong Guan, 2020-01-03 This book elaborates the corrosion testing and assessment methods for the aluminum alloy vessel in the service and internal environment The emphasis is placed on the research of general materials corrosion characteristics electrochemical protection design surface protection coating and painting etc This book helps readers to keep abreast of the whole technology system of the corrosion prevention and control of aluminum alloy vessel especially the systematic engineering view of life cycle corrosion control for the vessel is of particular interest to readers **Friction and** Wear in Metals Riyadh A. Al-Samarai, Yarub Al-Douri, 2024-03-29 This book focuses on tribology in manufacturing processes from the viewpoint of sliding friction fundamentals the use of lubricants to control friction processes such as machining drawing rolling extrusion abrasive processes and processing at micro and nanoscales To study tribological behavior it is essential to know the methods of measuring and describing the surface shape and roughness The friction and wear their corresponding coefficients and their main mechanisms are described including stick slip effects adhesion and plowing Adhesive abrasive erosive and erosion corrosion wear mechanisms Friction wear relationships are elaborated and wear maps are presented Surface interactions depend on the contacting materials and surface shape It is a function of the production process and nature of parent materials that are found to be rough where roughness is characterized by asperities of varying amplitudes and spacing Surface interactions are dependent both on the contacting materials and the shape of the surface The distribution of the asperities is directional when the finishing process is direction dependent such as turning milling etc and homogeneous for a non directional finishing process like lapping electro polishing Zinc-Air Batteries Shengjie Peng, 2023-01-01 This book aims to discuss the cutting edge materials and technologies for zinc air batteries From the

perspective of basic research and engineering application the principle innovation research progress and technical breakthrough of key materials such as positive and negative electrodes electrolytes and separators of zinc air batteries are discussed systematically which can be used to guide and promote the development of zinc air battery technology We do believe that our experiences and in depth discussions would make this book useful for researchers at all levels in the energy area and provide them with a quick way of understanding the development of zinc air batteries Metals Reference Book Colin J. Smithells, 2013-09-24 Metals Reference Book presents a convenient summary of data concerning to metallurgy It discusses the guidance for dealing with laboratory accidents It addresses the radioactive isotopes and radiation sources Some of the topics covered in the book are the x-ray crystallography excitation of x-rays rotating crystal methods powder methods the wide angle method the Laue method the intensity of x ray reflections derivation of accurate unit cell dimensions in crystals and the schoenflies system of point and space group notation The Hermann Mauguin system of point and space group notation is fully covered The structures of metals metalloids and there compounds is discussed in detail The text describes in depth the metallurgically important minerals. The metallic systems of unlimited mutual solubility are presented completely A chapter is devoted to the respiratory syncytial virus Another section focuses on the physical properties of molten salts The book can provide useful information to mineralogists chemists students and researchers Degreasing and the Ozone Layer ,1993 Metals Abstracts, 1996 Electrodialysis and Water Reuse Andréa Moura Bernardes, Marco Antônio Sigueira Rodrigues, Jane Zoppas Ferreira, 2013-08-30 This book presents novel techniques to evaluate electrodialysis processes to synthesize ionic membranes and to characterize their properties It shows the potential use of membrane process to the treatment of effluents generated in many industrial sectors such as refineries leather industries mining and electroplating processes. The book is based on the results obtained by the author's research group during the past decade It is useful for students researchers and engineers interested in membrane technologies for water reuse Surfactants in Polymers, Coatings, Inks, and Adhesives David R. Karsa, 2020-01-16 Surface active agents are used as process aids in the production of polymers as additives to impart or modify polymer properties and in the formulation and further processing of polymeric systems for a variety of applications In all these uses the surfactants are used as effect chemicals to impart specific performance characteristics or properties to the base polymer or to enhance it performance when formulated for a specific end use This volume focuses on those surfactant areas incorporating the greatest number of supplier and user companies Authors have been selected from leading industrial and academic laboratories around the world It provides an introduction to the underlying chemistry and technology in these industrial areas and at the same time highlights important recent developments Surfactants in Polymers Coatings Inks and Adhesives is a book for surfactant researchers and for manufacturers and users of surfactants In particular surfactant chemists analytical chemists environmental chemists users of surfactant formulations in the fields of specialty chemicals polymers and detergents and

health and safety personnel Graham's Electroplating Engineering Handbook L.J. Durney,1984-11-30 As an instructor in various finishing courses I have frequently made the statement over the years that In the field of metal finishing there is very little black and white just a great deal of grey It is the purpose of the instructor to familiarize the student with the beacons that will guide him through this fog To a very considerable extent a handbook such as this serves a similar purpose It is also subject to similar limitations Providing all the required information would result in a multi volume encyclopedia rather than a usable handbook In the pages that follow you will therefore find frequent references to other sources where more detailed explanations or information can be found The present goal is proper guidance and the provision ofthe most frequently required facts not everything that is available In the 13 years since the last edition changes in the finishing industry have been profound but in one sense have resulted in simplifying matters rather than complicating them Because technology has advanced to a level of complexity rendering home brew impractical in many cases dependence on proprietary compounds has become common Therefore detailed solution compositions are often no longer significant or even practical It is thus more important to provide instruction about the factors that affect the choice of the most suitable type of proprietary material

**Handbook of Metal Treatments and Testing** Robert B. Ross,1988-09-30 From reviews of the first edition A must for engineering libraries Materials Review Series Encyclopaedic and of immense practical value Physics in Technology

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