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## **Selected Formulary Book on Petroleum, Lubricants, Fats, Polishes, Glass, Ceramics, Nitrogenous Fertilizers, Emulsions, Leather and Insecticides**

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### **Description**

A man entering an industry soon finds that most of the products manufactured by his company are not synthetic or definite chemical compounds, but are mixtures, blends or highly complex compounds of which he knows little or nothing. The literature in this field, if any, may be meager, scattered or antiquated. Formulation is a key process in the overall life cycle so that products are delivered that is of the right quality, at a competitive cost, and is made available within the specified time scale. A formula is an entity constructed using the symbols and formation rules of a given logical language. In science, a specific formula is a concise way of expressing information symbolically as in a mathematical or chemical formula. The chemical formula identifies each constituent element by its chemical symbol and indicates the number of atoms of each element found in each discrete molecule of that compound. If a molecule contains more than one atom of a particular element, this quantity is indicated using a subscript after the chemical symbol and also can be combined by more chemical elements. It is all in the formula, whose implications also remain undiscovered by modern economists. It plays a major role in every process whether it is manufacturing process or preservation. There is a big importance of formula in our life because formulas and equations deal with everyday things like shapes, investments, mixing things, movement, lighting, travel and a host of other things they provide information you can use in planning activities.

This book basically deals with the extracting oil from cottonseed, silver nitrate test for cottonseed oil, solid linseed oil, decolorizing or bleaching linseed oil, linseed oil for varnish making, refining linseed oil, mineral oil, leather stuffing grease, leather

adhesion grease, liquid belting lubricant, belt adhesion compounds, belt preserving grease, government harness dressing, rubber belt dressing (non static), wire drawing lubricant, wire drawing composition, metal drawing lubricant, cold drawing metal lubricant, drawing compound for aluminum, brass drawing lubricating emulsion, sheet steel drawing lubricant, non seizing threads and gaskets, machine tool lubricant, slushing oil for metal protection  
horse shoe grease etc.

This book is an invaluable resource of the formulae of petroleum, lubricants, fats, polishes, glass, ceramics, nitrogenous fertilizers, emulsions, leather and insecticides. This book present several hundred advanced product formulations for household, industrial and other applications. The purpose of publishing this book is very useful for chemists, entrepreneurs, existing units, technocrats and engineering students.

## **Content**

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Solid Linseed Oil

Decolorizing or Bleaching Linseed Oil

Linseed Oil for Varnish-Making

Refining Linseed Oil

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Chain Lubricant for Weaving Machines  
Cup Greases  
High Temperature Cup Grease  
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Low Pour Point Lubricant  
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Weighted Oil-Base Drilling Fluid  
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Chassis-Protecting Oil  
Rifle Oil  
Watch and Chronometer Oils  
Laboratory Stopcock Lubricants  
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Anti-Rust Soluble Oil  
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"Soluble" Kerosene  
Boring Fluid for Heaving Shale Ground  
Non-Corrosive Rock Drill Lubricant  
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Fish Liver Oils  
Pre-Felting Treatment for Furs  
Fur Carroting Solutions  
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Cogwheel Lubricant  
Collector Lubricant  
Motor Cylinder Lubricant  
Rubber Shackle Lubricant  
Aluminum Drawing Lubricant  
Wire Rope Lubricant  
Sulphurized Lubricant  
Dry Brittle Lubricant

Extreme Pressure Lubricant  
Palm Oil Bleaching  
Grease Base  
Grease (Drop Point 70° C.)  
Lubricating Grease  
Light Colored  
Carriage Lubricating Grease  
Wire Rope Grease  
Friction Grease  
Rope Grease  
Water Wheel Grease  
Belt Adhesion Grease  
Protective Grease for Airplane Engines  
Axle Grease  
Anti-Rust Grease for Tools  
Leather Grease  
Horse Hoof Grease  
Horse Hoof Healing Grease  
Improved Stopcock Grease  
Preventing Discoloration of Higher Fatty Acids  
Graphite Lubricant  
Graphite Suspension  
Lubricating Grease Base  
Cup Greases  
Locomotive Rod Cup Grease  
Driving Journal Grease  
Cup Grease  
Manufacture of Cup Grease by Pressure  
Cooking Cup Grease  
Graphite Cup Grease  
Wool Lubricant  
Thread Grease  
Cordage Grease  
Lubricating Grease High Temperature  
Grease, Lubricating  
Lubricating Grease, Gasoline Proof  
Grease, Lubricating  
Stainless Steel Lubricant  
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Mill Grease



Leather Stuffing  
Emulsified Fluid Lubricant  
Lubricant  
Lubricating Composition  
Upper Cylinder Lubricant  
Lubricant Journal-Box  
Lubricant Non-greasy  
Bicycle Chain Lubricant  
Lubricant for Dies and Plates  
Gun Lubricant  
Graphite Grease  
Lubricant Inorganic  
Anti-oxident for Oils and Waxes  
Boring Oil  
Rayon Lubricant (Partly Soluble Type)  
Rayon Lubricant (Insoluble Type)  
Open Gear Lubricant  
Solid Lubricant  
Candles, Non-sticking  
Valve Lubricant  
Castor Oil, Sulfonating  
Castor Oil, Thickening  
Cutting or Spraying Oil  
Mineral Oil Softener  
Dry Powdered Lubricant  
Cutting Oil Emulsions  
Resin Soluble Cutting Oil  
â€ Cuttingâ€ Oils  
Cylinder Oil  
Dewaxing Lubricating Oil  
Drawing Oil  
Fish Oil, Purifying  
Increasing Viscosity of Oils  
Lubricating Grease Base  
Insulating Oil, Refining  
Penetrating Oil  
Oil, Penetrating  
Pine Oil, Solidified  
Porcelain Mold Oil  
Rayon Lubricating Oil

Soluble Oils  
Stainless Knitting Oil  
Oil for Leather  
Linseed Oil, Substitute  
Lubricating Oil, Chatterless  
Lubricating Oil, Low Cold Test  
Lubricating Oil, Reclaiming Used  
Mineral Oil Soluble Castor Oil  
Olive Oil, Bleaching  
Palm Oil, Decoloring  
Silk and Rayon Boil Off or Degumming Oil  
Textile Oil  
Textile Oil, Soluble  
Transformer Oil, Non-sludging  
Transformer Oil, Stabilizing  
Improving Transformer Oils  
Insoluble Oil Lubricant for Wool  
Rancidity and Oxidation in Fats and Oils Prevention of  
Paper Size  
Valve Stem Packing  
Heat Conducting Lubricant  
High Speed Bearing Lubricant  
Flotation and Cutting Oil Base  
Gear Lubricant for Arctic Climates  
Sulphur Lubricant Base  
Anti-Rust Compound  
Steering Gear Lubricant  
Mixed Base Grease  
Non-Bleeding Grease  
Lubricant for Bearings with High Temperatures and Pressure  
Metal Rolling Lubricant  
Non-Greasy Lubricant  
Olive Oil Motor Lubricant  
Lubricating Grease for Carriages  
Chain Lubricant  
Penetrating Oil  
Core Oil  
Stuffing Grease  
Cutting Oil  
Non-Corrosive Cutting Oil

Brake Oil (Non-Rancid)  
Gasoline Motor Lubricant  
Radiator Anti-Rust Compound  
Greaseless Lubricating Pencil  
Dynamo Brush Lubricant  
Cotton Spindle Machine Oil  
Veneer Press Caul Lubricant  
Transformer Oil  
Petroleum Proof Valve Lubricant  
Rubber Mold Lubricant  
Screw Thread Lubricant  
Vacuum Tap Grease  
Journal Grease  
Spring-Leaf Lubricant  
Nickel and Monel Drawing Lubricant  
Wire Drawing Lubricant  
Drawing Die Lubricant for Diamond Dies  
Corrosion Protecting Grease  
Lubricant for Preventing Corrosion  
Lubricating Haulage Ropes  
Hot Neck Grease  
High Temperature Lubricants  
Non-Chilling Lubricants  
Rod Lubricant  
Solid Lubricant  
Hard Grease  
Graphite Lubricant  
Watersoluble Oil  
Mineral Oil Soluble Castor Oil  
Lubricant Insoluble in Organic Solvents  
Tempering Fats (Bath to Quench and Harden Steels)

## 2. POLISHES AND ABRASIVES

Automobile Polish  
Auto Polish  
Polishing Emulsion for Automobiles and Furniture  
Automobile Polishing Powder  
Automobile Polish  
Furniture Polish  
Polishing Cloth  
Oil Polish for Furniture

Furniture Polish  
â€œRemovingâ€ Scratches from Furniture  
Furniture Finishing Oil  
Furniture, Lacquer Enamel and Polished  
Nickel or Chromium Wax Polish  
Floor Wax, Liquid  
Non-Slippery Floor Wax  
Homemade Floor Wax  
Floor Finish  
Floor Sweeping Compound  
For Polished Floors  
Bright Drying Wax Polish  
Rubless Wax Polish  
Easy Rubbing Wax Polish  
Wood-Preserving and Finishing Compound  
Dustless Mop Oil  
Stove Polish  
Window Polish  
â€œItalianâ€ Powder for Polishing Marble  
Colored Burnishing Clay  
Sharpening Compositions  
Silver Polishing Soap  
Copper Polish  
Metal Polish for Chromium or Silver  
Brass Polish  
Metal Content of Plating Salts  
Weather-Proof Mirrors  
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Wax Paste Auto and Furniture Polish  
Automobile Polishes (Oils)  
Automobile Polishes (Pastes)  
Automobile Polishes  
Solvent-Drying Oil Type  
Abrasiveâ€Drying Oil Type  
Wax-Solvent Type  
Automobile Cleansers  
Polishing Wax for Rotating Discs  
Non-Scratching Polish  
Emulsion Polish  
Lacquer Polish

Liquid Metal Polishes  
Metal-Polish Cake  
Metal Polish (Non-Inflammable)  
Metal Polish (Solvent Type)  
Metal Polish Pastes  
"Globus" Type  
Metal Polishing Cloths  
Tripoli Compo (Polish)  
Tripoli Buffing Stick  
Metal Cleaner and Brightener  
Polishing Metals for Metallographic Analysis  
Metal Cleaner for Beer Pipes and Apparatus  
Brass Polish Paste  
Aluminum Polish Powders  
Polishing Powders for Copper, Brass, Nickel, Chromium etc.  
Copper and Steel Polish  
Nickel and Chrome Polish  
Polish for Nickel, Chrome and Alloys  
Nickel, Chrome, Copper and Brass Polish  
Copper Kettle Polish  
Iron and Steel Polishing Powder  
Oven Frame Polish  
Oven Cover Polish  
Liquid Chromium or Nickel Polish  
Liquid Polishes for Iron or Steel  
For Forks and Knives  
Polish for Silver, Nickel, Brass, Chromium etc.  
Silver Polishes  
Liquid Silver Polishes  
Silver Plating Polish  
Silver Polish Powders  
Silver Polishing Cloths  
Removing Silver Tarnish  
Stove and Oven Polishes Aqueous Paste  
Oily Paste  
Viscous Oily Liquid  
Wax Emulsion Stove Polish  
Wax Block Stove Polish  
Wax Paste Stove Polish  
Stove Polish, Paste

Stove Polish, Semi-Liquid  
Liquid Stove Polish  
Stove Blacking  
Stove Polish  
Non-inflammable Stove Polish  
Quick Drying Stove Polish  
Stove Cleanser  
Liquid Oven Polish  
Stove and Oven Polish Powders  
Stove and Oven Polishes Liquid  
Oven Polish, Solid  
Oven Polish  
Oven Polish Emulsion  
Oven Polish, White  
Stove "Lacquer"™  
Liquid Grate Polish  
Water-Resistant Floor Emulsion Polish  
Preparation  
Non-Slippery Bright Drying Floor Wax  
Bright Drying (Non-Rubbing) Polish  
Rubless Bright Drying Water Wax Polishes  
Transparent Bright Dry Wax Emulsion  
Semi Bright Drying Wax Emulsion Polishes  
Bright Drying Floor Polish (Non-Rubbing)  
Floor Polish For Inlaid Floor  
Floor Polishes  
Colored Floor Polish  
Floor Polish (for Rubber Floor)  
Liquid Floor Wax 5 gal. Batch  
Antiseptic Insecticidal Floor & Furniture Polish  
Floor Polish Powders  
Floor Mop Oil  
For Floors  
Furniture Polish  
French Polishing  
Polish For Piano Keys  
Furniture and Automobile Polish  
Oil Polish  
Cleaning and Polishing Table Tops  
Window Polishes

Leather Cleaning and Polishing Stick  
White Shoe Cleaner Formulation  
Types of Cleaners  
White Shoe Dressing  
White Kid Cleaner  
White Leather Polish  
Shoe Polishes  
Dyes for this Formula  
(Water Paste Type) Black  
Non-Alkaline  
Shoe or Floor Polish  
Liquid Shoe Polish  
Shoe Polish-Paste  
Emulsion Type  
Tropical Shoe Creams  
Mahogany  
Shoe Creams, High Temperature Pouring  
Low Temperature Pouring High Grade Creams  
Colored Water Creams  
Metal Polish  
Liquid Metal Polishes  
Paste Metal Polish  
Wax Polish for Varnished Metals  
Silver Polish  
Chromium Polish  
Tin Plate Polish  
Fine Instrument Scale Polish  
Polishing by Barrel Tumbling  
No-Rub Floor Polishes  
Natural Resin-Wax Polishes  
Emulsified Floor Waxes  
Liquid Floor Wax  
Paste Floor Wax  
Solvent Floor Polish  
Wax Polishes for Wood  
Wax-Water Polishes for Wood  
Furniture Emulsion Polish  
Auto Polish  
Water Resistant Wax Polish  
Wax for Polishes

Plastic Polish  
Polishing for Synthetic Resin Plastics  
Polish for Cord  
Paste Polish  
White Shoe Cleaners  
White Shoe Polishes  
Perfume with Benzaldehyde  
Shoe Creams  
White Shoe Cleaning Paste  
Black Shoe Polish with a Lasting Shine  
Paste Shoe Polish  
Pyrotechnic Compositions Outdoor Red Fire  
Outdoor Green Fire  
Outdoor Blue Fire  
Pink Smoke Composition  
Pyrotechnic Flare  
Signal Torch (Flare)  
Bomb and Military Shell Explosive  
Mine Explosive  
Blasting Explosive  
Explosive Primer  
Aluminum Polish  
Directions for Use  
Silver Plating Polish  
Silver Polish  
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Non-Scouring Copper Polish  
Chromium Polishes  
Polish for Metals  
Metal Polish (Sidel Type)  
Metal Polish Block  
Black Polish for Ovens  
Automobile Polish Cleaner  
Car Polishes  
Automobile Cleaner and Polish  
Automobile Paste Polish  
Automobile Polish, Powdered  
Automobile Polish (Tumbler's)  
Auto Polish, Wax Base  
Solid Abrasive Polish (Wax), Automobile



Auto Polish  
Polish for Lacquered or Polished Objects  
Polish for Leather Furniture  
Liquid Furniture Polish  
Furniture Polish  
Furniture Finishers Polish  
Covering Polish for High-Gloss Polished Furniture  
Floor Polish  
Liquid Floor Polish  
Deodorized Floor Polish  
Dyestuffs for Floor Polishes  
Other Oil Coloring Bases  
Floor Oils  
Mop (Floor) Oils  
Mop Oil Polishes  
Water "Soluble" Floor Oil  
Dance Floor Wax  
Linoleum Wax  
Clear Wax  
Red Wax  
Red Stain for Linoleum  
Wax Polishes  
Wax Paste Polish  
Emery Polishing Paste  
Wax Polish  
Wood Button Polish  
Axe or Hammer Handle Wax  
Liquid Ski "Waxes" " "™  
Norwegian Klister (Ski) Waxes  
Ski Wax  
Ski Finishes  
High-Luster Polish for Shoes  
Shoe Polish Paste  
Shoe Polish  
Dyeing Shoe Polish, Liquid  
Sporting Shoe Dressings, Paste  
Shoe Paste, Black  
White Shoe Polishing Stick  
White Shoe Dressing  
Shoe White (Water Type)

Shoe White (Waterproof Type)

White Shoe Cleaner

White Shoe Dressing

Polishing Cloths

Cleansing and Polishing Compositions

Pore Filler for Polish Bases

Hardness Scale for Abrasives

### 3. MATERIALS OF CONSTRUCTION

Rapid Etching of Glass for White and Silky Matte

Glass Etching Resist

Glass Etching Paste

Frosting Glass

Frosting for Inside of Glass Bulbs

Glass Decoration

Coloured Glasses

Red Ruby Glass

Yellow Glass

Bright Green Glass

Dark Green Glass

Bright Blue Glass

Dark Blue Glass

Purple Glass

Violet Glass

Amber Glass

Black Glass

Brown Glass Batch

Tempering Glass

Laminated (Safety) Glass

Multicellular Glass

Luminescent Glass

Photoluminescent Glass

X-Ray Absorption Glass

Telescope Mirror Glass

Decolorizing Glass

Plaster Mold for Roofing Tiles

Building Tile Composition

Artificial Marble

Oil Coating for Glass Fibers

Tridymite Stone

Soapstone Table Preservative

Modelling Clay  
Ceramic Glaze  
Kieselguhr Ceramics  
High Strength Ceramic Ware  
Enamelware, Testing  
Pottery Saggers  
Vitreous Enamels  
White Enamel-Top Coat  
Dusting Enamel (Vitreous) for Cast Iron Type  
High Lead Enamel (Vitreous) Top Coat  
High Tin (Vitreous) Enamel Top  
Coat for Cast Iron Type  
Vitreous Enamel  
Improved Vitreous Enamel  
Vitreous Enamel Glaze Base  
Opaque Vitreous Enamel  
Extra White Vitreous Enamel  
Blue Vitreous Enamel  
Acid-Resistant Vitreous Enamel  
Vitreous Poreclain Batch  
Electrical Range Enamel  
Ground Coat  
Finish Coat  
Removing Porcelain Enamel  
Non-Organic Binder for Porcelain Enamel Frit  
Brown Glaze for High Tension Insulators  
Ceramic Underglaze Color Medium for Stencil Color Printing  
Ceramic, Overglaze Decoration Coating  
Preventing Efflorescence of Silicate Coatings  
Colored Roofing Granules  
Coloring Roofing Granules  
Light Household Cement  
Light Cellular Cement  
Heat Resisting Cement  
Acid Resistant Cement  
Clinkerless Slag Cement  
Hardening Cement-Asbestos Surface  
Magnesium Oxychloride Cement  
Toughened Cement  
Slow Setting Plaster of Paris

Dental Plaster Accelerator  
Accelerator for Setting of Plaster of Paris  
Cement Setting Accelerator  
Colored Coating for Cement  
Colored Concrete  
Light Weight Cement Concrete  
"Sealing" Concrete  
Concrete Sealing Compound  
Joint Compound  
Porous Concrete  
Gas-Proof Concrete  
Gas-Proof Mortar  
Hardening Concrete Floors  
Heavy Concrete  
Refractory  
Refractory Resistant to Caustic  
Refractory Furnace Bricks  
Petroleum Retort Lining  
Plaster Molds for Roofing Tile  
Graphite-Silicon Carbide Refractory  
Sound Insulating Composition  
Sound Absorbing Composition  
Acoustical Plaster  
Acoustic Wall Board  
Sound and Heat Insulation  
Heat and Sound Insulation  
Sound and Heat Insulation  
Sound and Heat Insulating, Artificial  
Stone  
Heat Insulating Composition  
Thermal Insulation  
Plastic Heat Insulation  
Spark Plug Insulator  
Electrical Insulation  
Wall Board, Insulating  
Porous Ceramic Insulation for Cables  
Boiler Insulation  
Insulation for Dynamo and Transformer Plates  
Wood Floor Fillers  
Hiding of Small Defects in Lumber for Furniture Etc.

Wood Preservative  
Wood Preservative Against Termites  
Exterior Millwork (Wood) Preservative  
Telegraph and Fence Pole Preservative  
Rot and Insect Proof Fiber Board  
Rot-Vermin Proofed Fiber Board  
Flameproofing Wood  
Fireproofing Wood  
Slow Burning Wood Treatment  
Timber Fire-Proofing and Preservative  
Building Brick  
Wall Plaster  
Wall Plaster or Mortar  
Building Plaster  
Gypsum Plaster Retarders  
Artificial Building Slabs  
Plaster Impervious to Gasoline and Kerosene  
Impermeable Wall, Floor and Road Covering  
Eliminating Dust on Dirt Roads  
Tennis Court Surface Dressing  
Non-Aging Road Binder  
Molasses Binder for Roads  
Paving Composition  
Asphalt Paving Composition  
Asphalt-Molasses Road Composition  
Conditioning Mineral Road Aggregates  
Asphalt Sheeting  
Pottery Bedding Composition  
Waterproofing Cements  
Waterproofing Cement and Concrete  
Waterproofing for Cement and Lime-Plaster  
Waterproofing for Masonry  
Waterproofing Cork  
Waterproofing Composition  
Acid and Alkali Proofing Masonry  
Fireproofing Composition  
Wood Fire-proofing and Preservative  
Wood Preserving and Fireproofing Composition  
Fireproofing for Wood and Textiles  
Methods Used

Low Melting Point Alloys

Very Low Melting Alloy

(Soft Solders)

Melting and Pouring of Brass and Bronze

Bronze Tablets

Production of Beryllium

Beryllium Bronze

Improved Bronze Alloy

Popular Bronze Bearing Alloys

Bunting #164â€“SAE #640â€“GMC 4071-M

Bunting #156â€“Similar to SAE 65, GMC

4052-M

Bunting #98â€“SAE 62â€“GMC 4048-Mâ€“Similar to ASTM B-10-18

Bunting # 162â€“GMC 4075-M

Bunting Alloy No. 72â€“GMC 4182-M

Bunting # 96â€“SAE 63â€“Similar to GMC 4046-M

Bunting # 27â€“SAE 64â€“GMC 4050 Mâ€“ASTM-B-31-21

Bunting #135â€“Similar to SAE 67â€“GMC-4056-M

Bunting #124â€“SAE #66â€“ GMC-4054-M

Bunting #125

Bunting # 161

Hot Working Copper Alloys

Copper Alloy Stable to Steam

Non-Staining Copper Alloy

Machinable Copper-Base Alloy

Copper-Iron Electrical Alloy

Silver Electrical Contact Alloy

Electrical Contact Alloy

Hardening Magnesium Alloys

Cable Sheath Lead Alloy

Bearing Metal Alloys

Die Casting Alloy

Pattern Alloy

Low Temperature Aluminum Brazing Alloy

Aluminum Alloy Resistant to Sea Water

Melting Aluminum Turnings

Non-Blistering Aluminum Castings

Hard Strong Aluminum Alloy

Hard and Low Thermal Expansion Aluminum Alloy

Hints on Spraying Babbitt Metal

Red Brass  
Imitation Gold  
Coating Metals with Lead  
Watch Compensating Spring Alloy  
Pen Nibs  
Pen Point Alloy  
Hard Pen-Nib Alloy  
Low Temperature Thermometer Alloy  
Electrical Contact Alloy  
Low Expansion Lead-In Wire for Electric Bulbs  
Non-Corrosive Lead-In Wire for Gas Filled Lamps  
Tungsten Wire Forming Compound  
Discharge Lamp Electrode Alloy  
Hot Cathode Electrode  
Lead Alloy for Storage Battery Anodes  
Frictional Alloy  
Heat Hardening Spring Steel Alloy  
Alloys Resistant to Hot Caustic Solutions  
Ferro-Chromium  
Pouring Fusible Metal Models  
Overcoming Lead Sweat  
Type Metal Dross Reducer  
Dental Plate Alloy  
Dental Amalgam Alloy  
Dental Amalgamating Alloy  
Dental Pin Alloy  
Tooth Straightening Metal Alloy  
Dental Plate Alloy  
Non-Blackening Silver Dental Alloy  
Dental Alloy  
Gold Sponge Dental Filling  
Heat Treatment of Spring and Alloy Steels  
Colors Developed in Heating of Steel  
Heat Treatment of Manganese Steel  
Heat Treating Transformer Steel  
Carbonization of Nickel Cathodes  
Thermal Treating Bath for Light Metals  
Tempering Powders (Steel)  
Steel Spring Quenching Emulsion  
Annealing Hack-Saw Blades and Files

Hardening or Tempering Copper  
Acid Resistant Lining  
Cementations-Bath for Iron and Steel 327  
Case Hardening Centrifugal, Ferrous  
Castings  
Case Hardening Steel  
Steel Hardening Mixture  
Hardening Steel  
Antimony Surface Hardening of Metals  
Case Hardening Composition  
Case Hardening Cast Iron Piston Rings  
Iron Cementing  
Inhibitor, Steel Pickling  
Steel Nitriding inhibitor  
Coating for Ingot Molds  
Preventing Cavities and Segregation in  
Steel Ingots  
Plastic Lead  
Malleable Cast Iron  
Coating for Sand Molds for Light Metal Casting  
Copper Foundry Mold Dressing Paste  
Foundry Mold (Casting) Powder  
Fabrication and Treatment of USS Stainless and Heat Resisting Steels  
Joining of USS Stainless and Heat Resisting Alloys  
Welding  
Austenitic Alloys  
Ferritic Alloysâ€”USS 17 and USS 27  
Ferriticâ€”Martensitic Alloyâ€”USS 12  
Electric Arc Welding  
Acetylene Welding  
Electric Resistance Welding  
Spot and Line Welding  
Flash Welding  
Atomic Hydrogen Welding  
Finishing of Stainless Steel Welds  
Soldering  
Silver Soldering  
Brazing  
Riveting  
Annealing



Annealing USS Stabilized 18-8  
Annealing USS 17 and USS 27  
Annealing USS 12  
Removal of Oxide and Scale Pickling  
Sandblasting  
Machining and Cutting Operations Machining  
Drilling  
Threading  
Sawing  
Punching and Shearing  
Perforating  
Drawing and Forming  
Application of Finishes  
Spinning  
Finishing of Fabricated Articles  
Grinding, Polishing, Buffing and Brushing  
Grinding  
Polishing  
Buffing  
Brushing  
Abrasives  
Buffing Compounds  
Brushing Compound  
Grinding, Polishing and Buffing Wheel and their Preparation  
Coarse Grinding Wheels  
Fine Grinding and Polishing Wheels  
Buffing Wheels  
Finishing Procedures  
Selection of Commercial Sheet Finishes  
Matching Mill Polished Finishes  
Finishâ€™Mirror Finish  
Miscellaneous Finishes  
Pickling Metals  
Pickling Iron  
Stainless Steel Pickling Solution  
Removing Oxide Films from Metals  
Pickling Bath for Duralumin  
Recovery of Waste Pickling Solutions  
Pickling Inhibitor  
Stripping Metal Coatings

Metal Cleaner and Brightener  
Anodic Oxidation of Aluminum  
Anode, Treatment of Aluminum  
Brightening Aluminum  
Rapid Cleaning of Mercury  
Reclaiming Water-Logged Electric Tools  
Cleaning a Rusted Rifle  
Coloring Metals  
Antique Coloring of Metals  
Green Coloring of Metals  
Coloring Brass Plate Brown  
Coloring Iron-Blue  
Coloring Cadmium Black  
Coloring Cadmium Brown  
Coloring Iron-Black  
Bronzing Copper and Its Alloys  
Bronzing Iron or Steel  
Permanent Blacking Galvanized Sheet Metal  
Bright Dip for Cast Bronze  
Oxidizing Finish for Brass  
Blackening Cast Iron  
Gun Metal Coloring of Pencil Tips  
Bluing Steel Articles  
Bluing Small Machine Parts  
Treatment of Aluminum Before Plating  
Protective Aluminum Coating  
Coating Iron with Molten Aluminum  
Enameling Iron  
White Enamel for Cast Iron  
Enamel Coating for Copper  
Radium Protection Sheathing  
Corrosion Preventive Coating  
Metallographic Etching of Zinc and Alloys Etching Fluid  
Molybdenum Etching Solution  
Copper Etching Fluids  
Printing Plate Etch, Copper  
Copper Printing Plate Etch  
Etch for Microscopic Study of Tin  
Stainless Steel Etches  
Micrographic Etch for Lead Specimens

Metal Etching Mordant  
Etching Designs on Copper  
Purifying Metallic Cadmium  
Removing Welding Scale from Stainless Steel  
De-Scaling Stainless Steel  
Descaling Iron  
Removing Fire Scale from Bronze  
Gas Free Aluminum  
Dephosphorizing Steel  
Removing Residual Calcium from Lead  
Copper Oxide Rectifier Metal  
Removal of Aluminum Oxide from Alloys  
Wear Resistant Iron Surface  
Brazing Flux  
Brazing Solder  
Stop-off Paste for Use in the Silver Brazing of Monel  
Galvanizing Flux  
Welding Rod Flux  
Flux Coating for Welding Electrode  
Flux for Welding Zinc  
Torch Welding Flux  
Soldering Fluxes  
Liquid, Non-Acidic  
For Tin and Baser Metals  
For Copper Wires  
For All Metals Except Aluminum  
General Soldering Fluxes  
Soldering Flux  
Iron and Steel Soldering Flux  
Aluminium Chloride  
Soft Soldering Flux  
Easy Spreading Soldering Flux  
Flux for Silver Soldering Stainless Steel  
Aluminum Solder  
Aluminum Plate Solder  
Aluminum Cable Solder  
Solder for Aluminum or Cast Iron  
Copper to Aluminum Solder  
Duralumin Solder  
Solder

Soft Solder  
Solders for Monel  
Low Tin Solder  
Silver Soldering  
Soldering Iron Tip  
Quick Solders, Rose's Metal  
Soldering Fluids  
Soldering Pastes  
Soldering Powders  
For Cast Iron  
For Aluminum  
For Iron, Copper and Brass  
For Aluminum  
Arc Welding Electrodes  
Welding Electrode  
Resistance Welding Electrode  
Welding Flux  
Fluxes for Aluminum Welding  
Welding Powder  
Brass Welding Rod  
Non-Fuming Brass Welding Rod  
Welding Rod  
Iron Welding Rod  
Flux for Cadmium and Its Alloys  
Cadmium Refining Flux  
Steel Dephosphorizing and Desulphurizing Flux  
Metal Melting Flux (For Down-Draft Furnaces)  
Bearing Metal  
Tinning Gray Cast Iron  
Temperature Control Important  
Hot Tinning Cast Iron  
Hot Tinning of Copper  
Hot Tinning Tableware  
Tinning Milk Cans  
Testing Tin Plate Pores  
The Hot-Tinning of Fabricated Articles  
The Tinning of Copper Tubes  
The Tinning of Steel Hollow-Ware  
The Tinning of Copper Wire  
The Tinning of Steel Wire

The Tinning of Cast Iron  
The Tinning of Miscellaneous Articles  
Rustproofing Composition  
Rust Cleaning and Rust Proofing  
Rustproofing Iron  
Rustproofing for Iron and Steel  
Rustproofing Steel (Phosphatizing)  
Black Iron Stain for Rust Prevention  
Rust Remover  
Rustproofing Composition  
Rust Removal  
Anti-Tarnish Bags for Silver  
Silver Tarnish Inhibitor  
Corrosion Proofing Aluminum  
Corrosion Proofing Iron  
Corrosion Resistant Radiator Pipe  
Brass, Corrosion Resistant  
Coating Iron Strips with Carbon  
Foundry Core  
Foundry Mold Coating, Asphalt  
Foundry Mold Wash for Green Sand  
Regenerating Foundry Core and Molding Sand  
Copper Mold Dressing  
Mold for Casting Stainless Steel  
Molds for Precision Castings  
Nickel Casting Facing  
Care of Platinum Vessels  
Tumbling Castings  
Aluminum Powder  
Froth Flotation Compound  
Froth Flotation Agent for Oxide Ores  
Froth Flotation Cleaning of Fire Clays  
Recovering Tin from Scrap Tin Plate  
Recovering Tin from Dross  
Cutting Wire Cable  
Reconditioning Steel Splice Bars  
Impregnation of Metals  
Non-Oil-Wetting Metal Surfaces  
Freeing Frozen (Stuck) Pistons  
Steel and Iron Identification

Seasoning (Drying) Wood

#### 4. CERAMICS AND GLASS

Glass Electrode Seal

Foamed Glass

Coating for Optical Lenses

Coating for Optical Lens

Solder Glass

Typical Flux for Glass Color

Dry Process Ground Coat Enamels for Cast Iron

Dry Process Cover Coat Enamels for Cast Iron

Batches for Matte Glazes

Wollastonite Satin and Matte Glazes

Single-Application Textured Glazes

Two-Coat Textured Glazes

Base Coat Glazes

Overspray Glazes

Batches for Gloss Glazes

Zirconium Silicate

High-Temperature Glazes for Sanitary Ware

Low-Expansion Glazes for Vitreous Bodies

Batches for Fast-Fire Glazes on Talc or Wollastonite Bodies

#### 5. LEATHER

Hide and Skin Preservative

Degreaser for Hides

Leather Bleaching

Bleaching Tanning Extract

Syntan

Fat Liquor

Synthetic Tanning Emulsion

Leather Finish

Antiseptic Leather

Mildewproofer for leather Goods

Fireproofing Emulsion for Leather

Chlorinated Paraffin

Belt-Traction Dressing

Fur-Carrotting Solution

Finish for Split Leather

#### 6. PETROLEUM REFINERY PROCESSES AND PETROLEUM PRODUCTS

Introduction  
Petroleum Fractionation (Distillation)  
Conversion of Petroleum Fractions  
Purification of Petroleum Fractions  
Extraction of Components and Blending Techniques  
Gases  
Motor Fuels  
Heating and Illuminating Oils  
Lubricants  
Other Oils  
Petroleum Waxes and Petroleum  
Asphalts  
Oil Wastes  
Petroleum Products for Petrochemical  
Synthetic Petroleum Products

## 7. NITROGENOUS FERTILIZERS

Nitrogenous Fertilizers and the Cyclic Process of Plant Nutrition  
Significance of Inorganic Nitrogenous  
Fertilizers

## 8. PYROTECHNICS AND EXPLOSIVES

Military Smoke  
Military Oxygen-Generating Candle  
Ignition Cone for Oxygen Candles  
Smoke Grenade Fuse Trains  
First-Fire Charge  
Delay Charge  
Ignition Charge  
Nondetonating Gas Charge  
Fuse Powder  
Extrudable Fuse  
Extruded Fuse  
Gasless Fuse Powder  
Delay-Fuse Powder  
Railroad Signal Flare  
Yellow Signal Flare  
Railroad Signal Torpedo  
Devil's Step on the Walk  
Incendiary Igniter  
Blasting-Cartridge Discharger

Electric-Blasting Detonator  
Plastic Nonhardening Explosive  
Unsheathed Safety-Explosive Cartridge  
Match Heads  
Tracer-Projectile Igniter  
Fuse Powder  
Flashless Military Propellant

## 9. AMMONIUM PHOSPHATES AND AMMONIUM POLYPHOSPHATES

Ammonium Phosphates  
Principal Reactions  
Properties  
Production Considerations  
Manufacturing Methods  
Ammonium Polyphosphates  
Production Methods  
Applications

## 10. CHEMISTRY AND PROCESSING OF UREA AND UREAFORM

Urea  
Physical and Chemical Properties  
Methods of Analysis  
Manufacture  
Preparation of the Neutral Urease Solution  
Manufacture  
Urea in Agriculture  
Use  
Ureaform  
Chemical and Physical Properties  
Agronomic Aspects of Ureaform  
Method of Analysis  
Manufacture of Ureaform  
Ureaform in Mixed Fertilizers  
Uses  
Mixed Fertilizers

## 11. MANUFACTURE OF ORDINARY SUPERPHOSPHATE

Production Technology of Simple Superphosphate  
Preparation of the Raw  
Materials  
Manufacture of Superphosphate  
Additional Operations



Sulphuric Acid as a Raw Material in the Manufacture of Superphosphate  
Transport and Storage of Sulphuric Acid  
Reactions Occuring in Superphosphate Manufacture  
Stoichiometric Amount of Sulphuric Acid and Peculiarities of the Decomposition Reaction  
Main Technical-Analytical Indices of Superphosphate Manufacture  
Manufacturing Indices of Ordinary Superphosphate from Vietnam  
Phosphorite  
Fast Curing of Superphosphate  
Apparatus used in Superphosphate Manufacture  
Phosphate Metering Devices  
Acid Metering Devices  
Mixing of Raw Materials  
Automation of Metering and  
Preparation of Raw Materials  
Dens for Superphosphate Manufacture  
Equipment for Trapping Fluorine-Containing Gases  
Storage and Conditioning of Super- phosphate  
12. EMULSIONS, DISPERSIONS AND FOAMS  
Hydrocarbon Solvent Emulsions  
Chlorinated Solvent Emulsions  
Oil Emulsions  
Cocoa Butter Emulsion  
Benzyl Benzoate Emulsion  
Methyl Salicylate Emulsion  
Sulfathiazole Emulsion  
Glycol Ester Resin Emulsions  
DDT Emulsion  
Nonaethylene Glycol Oleate  
Viscous Wax and Grease Emulsions  
Low Viscosity Wax Emulsions  
Irish Peat Wax Emulsion  
Acrawax Emulsion  
Acrawax C Emulsion  
Fatty Acid-Amide Emulsion Commercial Octadecane Amide  
Soluble Mineral Oil Emulsions  
Derivation of the Optimum Formula  
Soluble Vegetable and Animal Oil Emulsions  
Soluble Solvent Emulsions  
Industrial Mineral Oil Emulsion

Cutting Oil Emulsion

Soluble Oils

Soluble Neatsfoot Mineral Oil

Soluble Pine Oils

Emulsions with Pectin

Zein Dispersion

### 13. INSECTICIDES, FUNGICIDES AND WEED KILLERS

Insect Repellent

Silicone Insect Repellent Emulsion

Insect Repellent Sticks

Clothing Insecticide Impregnant

Insecticide Cone (Burning)

Aerosol Spray Concentrate

Fumigant Insecticidal Tablets

Wettable Powder Insecticide

Insecticide Emulsion

Lindane Emulsion

Methyl Parathion Emulsion Concentrate

Methyl Parathion Dust Concentrate

â€œStrobaneâ€ Formulations for Liquid Sprays

Aerosols

65% â€œToxapheneâ€ Emulsifiable

Concentrate (Cationic)

45% Chlordane Emulsifiable

Concentrate (Cationic)

85% Chlordane Emulsifiable

Concentrate (Nonionic)

Phosdrin Insecticide Dust

Endrin Insecticide Emulsion Concentrate

Endrin Insecticide Dust

Dieldrin Emulsifiable Concentrate

Dieldrin Insecticide Base

Aldrin Wettable Powder Insecticide

Aldrin-DDT Emulsifiable Concentrate

DDT Insecticide

DDT Dispersion Concentrate

25% DDT Emulsifiable Concentrate

(Cationic)

DDT-Oil Larvicide

Self-emulsifying Agricultural Spray Oil

Agricultural Spray Adhesive  
Cattle & Space Fly Spray  
Aerosol Cattle Fly Spray  
Mothproofing Aerosol  
Peanut Storage Fumigant  
Grain Fumigant  
Nonflammable Fumigant  
Increased Flash Point Fumigant  
Dog Repellent  
Rodenticide & Rat Repellent  
For Cordage & Sacks  
Plant Defoliant  
Borax Weed Killer  
Rope Preservative Fungicide  
Agricultural Fungicide  
Citrus Fruit Fungicide  
Oak Wilt Fungus Spray  
Insect Repellent Stick for the Skin  
Insect Repellent  
Self-Propagating Thermal Insecticide  
Self-Vaporizing Insecticide  
Insecticide Aerosols  
Herbarium Aerosol Insecticide  
Aerosol-Generating Propelling  
Composition  
Protecting Stored Tobacco Leaf  
Grape-Vine Fungicide

## **About NIIR Project Consultancy Services (NPCS)**

NIIR Project Consultancy Services (NPCS) is a reliable name in the industrial world for offering integrated technical consultancy services. Its various services are: Pre-feasibility study, New Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Preparation of Project Profiles and Pre-Investment and Pre-Feasibility Studies, Market Surveys and Studies, Preparation of Techno-Economic Feasibility Reports, Identification and Selection of Plant and Machinery, Manufacturing Process and/or Equipment required, General

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