

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

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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.

Contents

1 LUBRICANTS, OILS, FATS

Lubricants

Automotive Lubrication

Petroleum Jellies And Solidified Lubricants

Wagon And Axle Greases

Oils

Cold-Liver Oil

Deodorized Cod-Liver Oil

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

Mixing Castor Oil with Mineral Oils

Bleaching Oils

Linseed Oil or Poppy Oil

Boiled Oil

British Oil

Decolorizing and Deodorizing Oils

Decomposition of Oils, Fats, etc.

Driffield Oils

Drying Oils

Dust-Laying Oil

Ground-Laying Oil for Ceramics

Oil Suitable for Use with Gold

Wool Oil

Oil of Wintergreen Synthetic

Ointments

Arnica Salve

Barbersâ€™ Itch

Ammoniated Mercury Ointment

Domestic Ointments

Mix Green Salve

Salve for all Wounds

Irritating Plaster

Pink Salve

Antiseptic Nervine Ointment

Photographersâ€™ Ointment

Pain-Subduing Ointment

Skin Ointment

Alum Ointment

Carbolic Salve

Nipple Ointment

Zinc Ointment

Lubricating Block

Metal Drawing Lubricants

Greaseless Lubricating Pencil

Spring Lubricant

Hub and Gear-Box Lubricant

Lubricant for Ball and Roller Bearings

Upper Cylinder Lubricant

Water Soluble "Drawing" Lubricant
Viscous Emulsion Lubricant
Lubricating Stick
Steering Gear Lubricant
Cutting Lubricants
Cutting Lubricants
Lubrication of Ground Glass Joints
Chassis Lubricating Oil
Cylinder Oil
Soluble Oils
Artificial Drying Oil
Rust-Proofing Oil
Penetrating Oil
Extreme Pressure Oil
Sulphurized Cutting Oil
Norwood's Machine Oil
Bleaching Palm Oil
Antioxidant for Oils and Fats
Dewaxing Oils
Dewaxing Mineral Oil
Dewaxing Petroleum Oils
Removing Wax from Petroleum Oils
Thickening Lubricating Oil
Increasing Lubrication of Oils
Green Bloom Coloring for Lubricating Oil
Lubricating Oil Base
Lubricating Grease
Manufacture of Lubricating Grease
Lubricant Grease
Stopcock Lubricant (Sticky Clinging Type)
Stopcock Grease
Stopcock Grease (High Vacuum)
Air Seal Grease for Glass Joint
Soaps for Grease Bases
Removing Metallic Soap from Lubricating Emulsions
Corrosive Protection Grease
Soluble Mineral Oil
Textile Lubricants
Lubricating Emulsion for Wool
Lubricant for Worsted
Soluble Oil Base, Textile
Soluble Oil, Textile
Silk Throwing Oil
Spinning Oil for Light or White Fibers
Spinning Oil for Wool
Cotton Spraying Oil
Fulling Oil
Dressing for Yarn
Textile Lubricant for Spinning Jute, Hemp Etc.
Rope Lubricant
Leather Stuffing Grease
Leather "Adhesion Grease"
Liquid Belting- Lubricant

Belt Adhesion Compounds
Belt Preserving Grease
Government Harness Dressing
Rubber Belt Dressing (Non-Static)
Belting Oil
Belting Oil for the Tropics
Belt Adhesion Oil for Rubber Belting
Leather Oils
Leather Grease for Soles
Leather Oil for Sport Shoes
Tanner's Grease
Fat-Liquors for Chrome Tannages
Stuffing Fat-Liquors for Leather
Fat-Liquor for Lambskins
Lubricating Grease
Gasoline-Proof Lubricating Grease
Anti-Freeze Lubricating Grease
Adherent Lubricating Grease
Lubricating Grease, Non-Separating
Ball Bearing Grease
High Speed Ball Bearing Grease
Lubricant for Rubber Bearings (Spring Shackles)
Lubricating Grease of Low Softening Point for Roller and Similar Bearings
Roller Bearing Lubricant
Lubricant for Hot Bearings
Hot-Bearing Grease
Lubricants for Highly Loaded Bearings
Lubrication of Synthetic Resin Bearings
Grease for Pressure Lubrication
High Pressure Lubricant
Hot-Roller Grease
Hot-Roller Grease Brignets
Hot-Roller Lubricant
High Temperature Lubricant
"Cold-Roller Grease" Lubricant for Rollers, Pulleys, Bearings
Lubricating Briquets
Lubricants for Cold Rollers
Cock Valve Greases Special
Cock Grease
Engine Lubricating Grease
Carriage Greases
Carriage Greases unfilled
Carriage Greases filled
Carriage Grease, Medium Quality
Carriage Grease, High Luster
Carriage Lubricant
Lubricating Greases for Driving Gears
Car-Gear Lubricant
Stuffing Box Grease
Metal Cylinder Surfacing Lubricant
Ford Spring Lubricant
Cog Wheel Lubricant
Cog Wheel Grease

Lubricant for Chains, Etc.
Trolley Electric Cable Lubricant
Chain Lubricant for Weaving Machines
Cup Greases
High Temperature Cup Grease
Driving Journal Compound
Pipe Thread Lubricant
Lowering Pour Point of Mineral Oils
Low Pour Point Lubricant
Lubricant for Electrical Collectors
Weighted Oil-Base Drilling Fluid
Grease for Drilling- Tube Couplings
Gasometer Lubricant
Wire Rope Lubricant
Boring Fluids
Graphite Lubricants
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
Lubricating Oil for Motor Cylinders
Brake Oil
Flushing Oil for Crank Cases
Chassis-Protecting Oil
Rifle Oil
Watch and Chronometer Oils
Laboratory Stopcock Lubricants
Anti-Corrosion Oil
Core Oils for Foundries
Non-Crystallizing Rosin and Core Oils
Core Oils
Plastic Mold Lubricant
Molding Press Lubricant
Ceramic Mold Lubricant
Penetrating Oils
Penetrating or Rust Loosening Oils
"Water-Soluble" Oils
Anti-Rust Soluble Oil
Modified Turkey Red Oil
Soluble Oil Base
"Soluble" Kerosene
Boring Fluid for Heaving Shale Ground
Non-Corrosive Rock Drill Lubricant
Cutting Oil
Cutting (Drill) Oil
Cutting Oil for Magnesium Alloys

Fish Liver Oils
Pre-Felting Treatment for Furs
Fur Carroting Solutions
Lubricant and Sealer
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
Lubricant for Drawing and Forming Stainless Steel
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
•Cutting• 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
• Removing • 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
• Italian • 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
Auto-Polishes
Wax Paste Auto and Furniture Polish
Automobile Polishes (Oils)
Automobile Polishes (Pastes)
Automobile Polishes
Solvent-Drying Oil Type
Abrasive • 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
• 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
Silver Polishing Cloth
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 Saggars
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
Mildewproofers 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 Fusee
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
• Formulations for Liquid Sprays
Aerosols
65% • 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

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