Formula and Manufacture of Polishes

(Floor Polish, Oil Polish, Metal Polish, Furniture Polish, Leather Polish, Shoe Polish, Automobile Polish, Aluminum Polish, Glass Polish)

Introduction

Polishing is the process of creating a smooth and shiny surface by rubbing it or using a chemical action, leaving a surface with a significant specular reflection (still limited by the index of refraction of the material according to the Fresnel equations.) In some materials (such as metals, glasses, black or transparent stones) polishing is also able to reduce diffuse reflection to minimal values. When an unpolished surface is magnified thousands of times, it usually looks like mountains and valleys.



By repeated abrasion, those "mountains" are worn down until they are flat or just small "hills." The process of polishing with abrasives starts with coarse ones and graduates to fine ones. There are various types of polishes having industrial and domestic applications; abrasive polish, aluminium polish, motor car polishes, cellulose friction polishes, furniture polishes, leather belt polishes, pine oil metal polish etc.



Polishes in India grew by 7% in current retail value terms in 2015 due to similar growth in shoe polish, which represented 41% of total polishes value sales in the year. People having less time to polish shoes by themselves and the higher number of other shoe care products, such as sprays, caused the 7% sales rise in 2015, which was less than the growth rate averaged in the overall review period. The primary objective of the Polish industrial development policy should be to maximise its controllability and to develop the



broadest possible array of instruments which will make it possible for us to further our own interests. Today, this means that we need to take control of the most valuable links of the existing value chains and to secure the access to the rarest and most valuable resources as well as to attain the status of a player with a right of veto in complex, multilateral economic systems.



This book basically deals with microcrystalline waxes in floor polishes, properties of braxilian grades of carnauba wax, compatibility of paraffin waxes with other substances, synthetic mineral waxes, miscellaneous synthetic waxes, additives for raising melting point of candles, wax coating for fruits, shribs, and plants, effect of paraffin on esparto montan mixtures, water proofing of kraft papers, production of montan wax, polish, abrasives, metal cleaners, nickel silver castings, cleaning, polishing metals for metallographic analysis, paste for wax calf leather, burnishing polishes for automobile maintenance, etc.

The purpose of this book is to present comprehensive information of different types of wax and polishes like their processing, properties and uses. This book is very useful for new entrepreneurs, technocrats, professionals and researchers.



Table of Contents

CHAPTER I

COMPOSITIONS WITH RESINS AND RUBBER

Resin-wax compositions

Compatibility of varnish resins with waxes

Wax-rosin compositions

Cumar (cumarone-indene resins) and wax compositions

Methacrylate resin hot-melt blends

Pliolite S-7 wax compositions

Microcrystalline wax-resin blends

Microcrystalline Waxes in Floor polishes

Wax-rubber compositions

Wax-Vistanex Blends

Viscosity of Vistanex-Wax Mixtures

Water Vapor Transmission

Flexibility



Sealing Strength

Paper Coatings (wax-Vinyl Copolymer)

CHAPTER 2 VEGETABLE WAXES

Bayberry wax

Source

Candelilla wax

Compatibility

Specifications

Scope

Carnauba Wax

Production

Composition

Properties of Braxilian Grades of Carnauba Wax

Flower wax

First wax

Medium wax



Sandy wax

Fat wax

Specifications

Colour

Adulterations of Carnauba Wax

Cotton wax

Esparto wax

Fir Eax

Propertries of Fir wax

Flax wax

Japan wax

Composition

Grades Available

Ouricury wax

Preparation

Composition

Grade available



Specifications

Palm waxes

Grade available

Cuban Palm wax

Compatibility

Rice-oil wax

Sugar cane wax

Source

Constituents of Sugar Cane Wax

Ucuhuba Wax

Cocoa Butter

CHAPTER 3

PARAFFIN WAX COMPOUNDS

Compatibility of paraffin Waxes with Other Substances

Paraffin wax with Bitumen



CHAPTER 4SYNTHETIC MINERAL WAXES

Fischer-Tropsch (F-T) Waxes

FT-200 and FT-300 Wax

Specifications

Hardening Fischer-Tropsch Wax

Duroxon waxes

Duroxen Waxes-Group C

Douroxon Waxes- Group E

Duroxon Waxes- Group H

Duroxon Waxes- Group J

Duroxon Waxes- Group R

Paraflint

Paraflint as Modifier

Polymekon



CHAPTER 5MISCELLANEOUS SYNTHETIC WAXES

Albacer

Atlasene Waxes

BASF waxes

Cardis waxes

Ceramid

Diolin (Octadecanediol)

Glyco Waxes

Flexo Wax C

Oxazoline waxes

Toxicity

Experimental Synthetic waxes

CHAPTER 6 INDUSTRIAL USES OF WAX

Adhesives

Candles

Wicks



Winding

Size of Candles

Machinery

Wax Candles

Paraffin Candles

Temperature Control

Colors, Sizes, Shapes

Standard Candle

Additives for Raising Melting Point of Candles

Melting point of Wax mixtures

Congealing Point of Candles

Coatings

Foil Coatings

Hot-melt coatings

Protective and Decorative Coatings

Wax Coating for Fruits, Shribs, and Plants

Cosmetics

Cold creams



Vanishing creams

Cleaning creams

Emollient Creams

Protective or Barrier Creams

Sun Screen Creams

Lipsticks

Cream Rouge

Eyebrow pencils

Shaving Cream

Antiperspirants

Lotions

Hand Cleaners

Hair Straighteners

Embalming Preparations

Dental Waxes

Carving Wax

Method of producing Base-Plate wax

Electrolytic Condensers



Inks

Printing Inks

Carbon Paper Inks

Effect of paraffin on Esparto-Montan Mixtures

Leather Goods

Finishes

Saponified Shoe Cream

Manufacture of Saponified Creams

Paper Products

Practial Evaluations

Additives

Improved Compositions for wax Coatings

Polyethylene-Paraffin Wax Paper Coatings

Paper Finishes

Stencils

Water proofing of Kraft Papers

Effects of a Wax Sixing on Insulating Board

Pliolite-paraffin wax Compositions



Pharamaceutical preparations

Photomechanics

Plastics

Polishes

Floor Polishes

Rubless Emulsion Polishes

No-Rub Resin - Wax Emulsion Polish

Pyrotechnics

Rubber

Textile processing

Sizing

Printing

Finishing

Yard Finishes

Water Poofing



CHAPTER 7OTHER MINERAL WAXES

Montan wax

Sources

Production of Montan Wax

Composition

Properties of Montan Wax

Durmont Waxes

Uses of Montan Wax

Modified Montan Waxes

Lignite wax

Oxocerite wax

Occurrence

Manufacture of Ozocerite

Composition

Properties of Ozocerite

Compatibility



Adulterations

Ceresin

Utah wax

Peat wax

CHAPTER 8

POLISH, ABRASIVES, METAL CLEANERS

Abrasive Compound

Brass, Refinishing Corroded

Cellulose-Friction Polishes

Flatting Paste Emulsions

Finishing Floor Wax

Liquid Floor wax (Rubbing Type)

Wood Floor Finish

Furniture polishes

Leather Belt Polish

Leather Dressings

Leather Finish



Metal Polish

Tank A

Tank B

Pipe Oil Metal Polish

Nickel Silver Castings, cleaning

Non-Caking Shoe Dressings

Dyeing "Shoe" Plush Brown

Shoe Polish

Synthetic Spinel

Sand Papers and Emery Papers

Abrasive Wheels

Automobile Polish

Furniture Polish

Polishing Cloth

Oil Polish for Furniture

Furniture Polish

Removing Scratches from Furnishes



Non-slippery Floor wax

Floor Polish

Floor sweeping Compound for Polished Floors

Wood-Preserving and Finishing

"Italian" Powder for Polishing Marble

Colored Burnishing Clay

Sharpening Compositions

Aluminium Polish

Directions for use

Non Scouring Copper Polish

Automobile Polish (Tumbler's)

High Luser Polish for Shoes

Sporting Shoe dressings, paste

Notes on Cleaning White Shoes

Shoe White (Water Type)

Shoe White (Waterproof Type)

Cleansing and Polishing compositions



Auto-Polishes

Automobile Polishes(oils)

Automobile-Polishes (Pastes)

Automobile Polishes

Metal Polish Pastes

Metal Polishing Cloths

Polishing Metals for Metallographic Analysis

Aluminum Polish Powders

Liquid Polishes for Iron or Steel

Polish for Silver, Nickel, Brass, Chromium, etc.

Silver Polishes

Liquid Silver Polishes

Removing Silver Polish

Silver Polishing Cloths

Wax Paste Stove Polish

Quick Drying Stove Polish

Water-Resistant Floor Emulsion Polish



Rubless Bright Drying Water Wax Polishes

Semi Bright Drying Wax Emulsion Polishes

Floor Polish Powders

Floor Mop Oil

French Polishing

Cleaning and Polishing Table

Ski wax

Paste for Wax Calf Leather

Leather Cleaning and Polishing stick

Types of Cleaners

White Shoe Polish

White Leatehr polish

Shoe Polishes

Polishing, Lapping and Tumbling

Abrasives

Poolishing Wheels

Metal Polish

Liquid metal polishes



Paste Metal Polish

Wax Polish for varnished metals

Fine instrument scale polish

Polishing by barrel Toumbling

Barrel Tumbling material

Stove Polishes

Sodium silicate Solutions

Artrificial Graphite

Stove Polishes

Dance Floor Polishes

Bright Drying Floor Polishes

Emulsified Floor waxes

Wax for polishes

White Shoe Polishes

Oil Polish

Burnishing Polishes for Automobile Maintenance

Silver Polish

Jewelry Polish



Bright Drying Floor Polish

Floor Treatments

Wood Floors

Floor Waxes or Polishes

Cement (Concrete)Floors

Vitreous Tile or Ceramic and Terrazzo Floors

Marble and Travertine Floors

Linoleum Floorings

Rubber Floors

Cork Tile and Cork Carpet Floorings

Asphalt Tile and mastic Floors

Plastic magnesia Cement Floors

Slate Tile Floors

Bonded Abrasive Wheels

Removing Scratches from Glass



CHAPTER 9POLISHES

Heavy Duty Floor Polish

Carnauba Base Floor Polish

Silicon Furniture Polish

Liquid Floor polish

Bright Drying Floor Wax

Silicone Polishing Cloth

Mineral Oil Emulsion Polish

Aesrosol Polish

Aerosol waxeless Polish

Auto Cleaner Polish

Ball Bearing Polish

Metal Polish

Silver Polish (Dip)

Antislaking Buffing Composition

Abrasive Vehicle (Oil)



Insectidal Floor Wax

Opaque-White Norrubbing Floor Wax

Floor-Wax Emulsion

Non-Rubbing Floor Wax

Water Emulsion paste Waxes

Liquid Solvent Waxes

Solvent-Type paste Waxes and Shoe Polishes

Stable Wax-Solvent Floor Polish

Liquid Solvent Floor wax

Buffing Compound

Metal Abrasive

Paste Wax Polish (Auto wax)

(Floor and Furniture wax)

Liquid Wax Polish

Auto Polish

Glass Polish

Oven polish

Silver Polish



Metal Polishing Cloth

Chromium Polish

Leather Polish

Liquid Leather Polish

Paste Leather Polish

Shoe Polish Paste (for Tubing)

Shoe Creams

Furniture Polish

Floor Wax Remover

Bright Drying Floor Polish (Emulsion) (rubber)

Floor wax

Diamond abrasive

Synthetic Abrasive

Auto Rubbing compounds

Buffing Compounds

Cream Buffing Wax

Automobile polish



Metal Cleaning and Polishing Cloth

Metal Polish

Furniture Polish

Furniture Cleaner and Polish

Floor Polish

Dance Floor Wax

Oil Polishes

Wax Polishes

Wax Paste Polish

Rubber Polishes

Rubber Wax Floor Polish

Method 1

Method 2

Variation

Triethanolamine Water-Resistant Rubless Polish

Morpholine Water-Resistant Rubless Polish

Method 1

Method 2



Resin, Shellac, Casein Dispersions

Natural Resin Dispersions

Preparation of Formula No.1.

Preparation of Formula No. 2

Shellac Dispersion

Casein Dispersion

Polishing Paste

Diamond Dust Abrasive

Abrasive Cleaner

Lens Polishing Powder

Polishing Powder

Smoothing Compound for Lucite and Plexiglas

Tumbling Barrel Polish

French Polish Base

Black Paste Shoe Polish

Soft Leather Polish

Rubber Foot wear Polish



Rubless Floor Wax

Bright-Drying Floor Wax Emulsion

Durez Wax Base

Floor Polish

Dance-floor Wax

Furniture Polish

Perfume for Furniture Polish

Paste Waxes

Black Shoe Polish

Leather Polish

Polish for Edging Leather Straps

Automobile Polish

Automobile Polish and Cleaner

Automobile Finish Haze Remover

Automobile Hand-Rubbing Compound

Stone and Porcelain Polish

Glass Wax Polish



Optical-glass Polish

Rough Diamond-Polish Substitute

Lapping Compound

Stove Polishing Stick

Gold Polish

Silver Polish

General Metal Polish

Brass Polish

Brass and Bronze Cleaner and Polish

Brass, Nickel, and Chrome Polish

Brass-Buffing Soil Cleaner

Tripoli-buffing Composition for Brass

Tripoli-cut-and-color Composition for Brass

White-Lime- cut-and-color Composition for Brass

Red Oxide Color Composition for Brass

Metal-Buffing Compound

Polishes

Metal Polish



Rust-Preventing Metal Polish

Chemical Nickel Polish

Glass and Metal Polish

Electric Shaver Sharpening Paste

Glass-Grinding Fluid

Abrasive Diamond Paste

Silicone Furniture Polish

Silicone Auto Polish

Silicone Cleaner Polish

Silicone Wax Polish

Furniture Polish

Solvent-type Paste Floor Polish

Solvent-Type paste Wax Polishes

Liquid Type wax Polishes

Floor-Polish Paste

Buiffing Paste Polish

Oil Polish

Paste Shoe Polish

Liquid White shoe dressing



CHAPTER 10

MICROCRYSTALLINE WAXES

Differences between microcrystalline and paraffin waxes

Fractional crystallization of petroleum waxes

Properties of Microcorystalline waxes

Melting point

Compatibility

Laminating properties of Microcrystalline waxes

Miscibility with additives

Solubility

Specific Gravity at various Temperatures

Thermal Expansion and Melting point of waxes

Oxidized microcroystalline waxes

Emulsifiable Microcrystalline waxes

Petrolatum wax

Uses of Microcrystalline waxes

Drum Linings



Vat Linings

Miscellaneous data

Properties of some commercial Microcrystalline waxe

Amsco waxes

Aristo Waxes

Bareco waxes

Bareco Hard Wax

Bareco Plastic waxes

Bareco Emulsifiable waxes

Bareco Synthetic waxes

Electrical Properties of Bareco waxes

Be Square Waxes

Mobile Waxes

Milti Waxes

Pearl Waxes

Sova Waxes

Super Flex Waxes

WarWick Waxes



Niir Project Consultancy Services (NPCS) can provide Process Technology Book on Wax and Polishes

See more
http://goo.gl/5nls7W
http://goo.gl/Ev2USy



Visit us at

<u>www.entrepreneurindia.co</u>



Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

https://goo.gl/VstWkd



Locate us on Google Maps

https://goo.gl/maps/BKkUtq9gevT2



Contact us

Niir Project Consultancy Services

106-E, Kamla Nagar, New Delhi-110007, India.

Email: npcs.ei@gmail.com, info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886

Mobile: +91-9811043595

Fax: +91-11-23841561

Website:

www.niir.org

www.entrepreneurindia.co

Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

https://goo.gl/VstWkd



NIIR PROJECT CONSULTANCY SERVICES

An ISO 9001:2008 Company



Who are we?

- One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services
- We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad



What do we offer?

- Project Identification
- Detailed Project Reports/Pre-feasibility Reports
- Business Plan
- Industry Trends
- Market Research Reports
- Technology Books and Directory
- Databases on CD-ROM
- Laboratory Testing Services
- Turnkey Project Consultancy/Solutions
- O Entrepreneur India (An Industrial Monthly Journal)



How are we different?

- We have two decades long experience in project consultancy and market research field
- We empower our customers with the prerequisite know-how to take sound business decisions
- We help catalyze business growth by providing distinctive and profound market analysis
- We serve a wide array of customers, from individual entrepreneurs to Corporations and Foreign Investors
- We use authentic & reliable sources to ensure business precision



Our Approach Requirement collection Thorough analysis of the project Economic feasibility study of the **Project** Market potential survey/research

Report Compilation



Who do we serve?

- Public-sector Companies
- Corporates
- Government Undertakings
- Individual Entrepreneurs
- O NRI's
- Foreign Investors
- Non-profit Organizations, NBFC's
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations



Sectors We Cover

- O Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- O Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- O Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling



- O Bamboo And Cane Based Projects
- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct



- Copper & Copper Based Projects
- Dairy/Milk Processing
- O Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- O Electrical, Electronic And Computer based Projects
- O Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- O Food, Bakery, Agro Processing



- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitability Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries



- Infrastructure Projects
- Jute & Jute Based Products
- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing(Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- O Organic Farming, Neem Products Etc.



- O Paints, Pigments, Varnish & Lacquer
- O Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- O Perfumes, Cosmetics And Flavours
- O Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- O Plantations, Farming And Cultivations
- O Plastic Film, Plastic Waste And Plastic Compounds
- O Plastic, PVC, PET, HDPE, LDPE Etc.



- Potato And Potato Based Projects
- Printing And Packaging
- O Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals



- O Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry(Packaged Drinking Water & Mineral

Water)

Wire & Cable



Contact us

Niir Project Consultancy Services

106-E, Kamla Nagar, New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886

Mobile: +91-9811043595

Fax: +91-11-23841561

Website:

www.niir.org

www.entrepreneurindia.co

Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

https://goo.gl/VstWkd



Follow Us



>https://www.linkedin.com/company/niir-project-consultancy-services



https://www.facebook.com/NIIR.ORG



https://www.youtube.com/user/NIIRproject



>https://plus.google.com/+EntrepreneurIndiaNewDelhi



https://twitter.com/npcs_in



https://www.pinterest.com/npcsindia/





THANK YOU!!!

For more information, visit us at:

www.entrepreneurindia.co

