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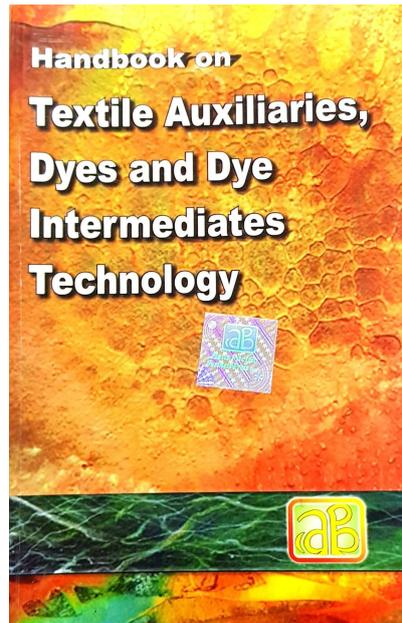
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Handbook on Textile Auxiliaries, Dyes and Dye Intermediates Technology

Code	NI221
Format	paperback
Indian Price	₹1575
US Price	\$150
Pages	736
ISBN	9788178331225
Publisher	Asia Pacific Business Press Inc.

Description

Textile auxiliaries are defined as chemicals of formulated chemical products which enables a processing operation in preparation, dyeing, printing of finishing to be carried out more effectively or which is essential if a given effect is to be obtained. Certain Textile Auxiliaries are also required in order to produce special finishing effects such as wash & wear, water repellence, flame retardancy, aroma finish, anti odour, colour deepening etc. The prime consideration in the choice of Textile materials is the purpose for which they are intended, but colour has been termed the best salesman in the present scenario. The modern tendency is towards an insistence on colour which is fast to light, washing, rubbing, and bleaching; this movement makes a great demand on the science of dyeing. Auxiliaries, dyes and dye intermediates play a vital role in textile processing industries. The manufacture and use of dyes is an important part of modern technology. Because of the variety of materials that must be dyed in a complete spectrum of hues, manufacturer now offer many hundreds of distinctly different dyes. The major uses of dyes are in coloration of textile fibers and paper. The substrates can be grouped into two major classes-hydrophobic and hydrophilic. Hydrophilic substances such as cotton, wool, silk, and paper are readily swollen by water making access of the dye to substrate relatively easy. On other hand hydrophobic fibers, synthetic polyesters, acrylics, polyamides and polyolefin fibers are not readily swollen by water hence, higher application temperatures and smaller molecules are generally required. Dye, are classified according to the application method. Some of the examples of dyes are acid dyes, basic or cationic dyes, direct dyes, sulfur dyes, vat dyes, reactive dyes, mordant dyes etc. Colorants and auxiliaries will remain the biggest product segment, while faster gains will be seen in finishing chemicals. World demand for dyes and organic pigments is forecast to increase 3.9 percent per year through 2013, in line with real gains in manufacturing activity. Volume demand will grow 3.5 percent annually. While the textile industry will remain the largest consumer of dyes and organic pigments, faster growth is expected in other markets such as printing inks, paint and coatings, and plastics. Market value will benefit from consumer preferences for environmentally friendly products, which will support consumption of high performance dyes and organic pigments. Some of the fundamentals of the book are antimony and other inorganic compounds, halogenated flame retardants, phosphorous compounds, dyes and dye intermediates, textile fibers, pigment dyeing and printing, dry cleaning agents, dry cleaning detergents, acrylic ester resins, alginic acid, polyvinyl chloride, sodium carboxy methyl cellulose, guar gum, industries using guar gum, gum tragacanth, hydroxyethyl cellulose, polyethylene glycol, industries using polyethylene glycols, etc. The book covers details of antimony and other inorganic compounds, halogenated flame retardants, silicone oils, solvents, dyes and dye intermediates, dry cleaning agents, different types of gums used in textile industries, starch, flame retardants for textile and many more. This is very resourceful book for new entrepreneurs, technologists, research scholars and technical institutions related to textile.

Content

1. Antimony and Other Inorganic Compounds

Antimony Compounds

Boron Compounds

Alumina Hydrates

Molybdenum Oxides

Applications

2. Halogenated Flame Retardants

Principles of Developing Flame-Retardant Polymers

Testing

Polymer Classes

Additive Flame Retardants

Reactive Flame Retardants

Economic Aspects

3. Phosphorous Compounds

Mechanism of Action of Phosphorus Flame Retardants

Phosphorus-Based Flame Retardants in Commercial Use

Health and Safety Factors

Economic Aspects

4. Urea-Formaldehyde Resins

Composition Variables

Melamine

5. Melamine-Formaldehyde Resins

New Nitrogen Compounds for Amino Resins

6. High Styrene-butadiene Rubber Resins

7. Chlorinated Biphenyls

8. Chlorinated Paraffins

9. Synthetic Rubber Resin Latexes

Procedure

10. Silicone Oils

Procedure

11. Solvents

TYPES OF VOLATILE SOLVENTS

12. Dyes and Dye Intermediates

Textile Fibers

Cotton and Rayon

Wool and Silk

Cellulose Acetates

Polyamides

Polyester

Acrylics

Vinyls

Polyolefins

Glass Fibers

Paper

THE PROPERTIES OF DYES

CLASSIFICATION OF DYES

Acid dyes

Basic or Cationic Dyes

Direct Dyes

Sulfur Dyes

Vat Dyes

Reactive Dyes

Disperse Dyes

Mordant Dyes

Azoic Dyes

Oxidation Dyes

Ingrain Dyes

THE APPLICATION OF DYES

Fiber Preparation

Dye Bath Preparation

Dye Application

Finishing

DYEING EQUIPMENT

PRINTING

PIGMENT DYEING AND PRINTING

NONTEXTILE USES OF DYES

PRODUCTION AND USES

RAW MATERIALS FOR THE MANUFACTURE OF DYES

DYE INTERMEDIATES

Nitration

Reduction

Amination

Sulfonation

Halogenation

Alkaline Fusion

Oxidation

Other Important Reactions

PRODUCTION OF DYE INTERMEDIATES

THE MANUFACTURE OF DYES

Azo dyes

Manufacturing Processes for Azo Dyes

Triphenylmethane Dyes

Xanthene Dyes

Anthraquinone and Related Dyes

Indigoid and Thioindigoid dyes

Sulfur Dyes

Phthalocyanines

Fluorescent brightening agents

PRODUCTION STATISTICS

NEW DEVELOPMENTS IN DYES

13. Dry Cleaning Agents

Stoddard Solvent

Specification Tests

Perchloroethylene

Specification tests

Procedure

Fluorocarbon Solvent

Used Drycleaning Solvents

Drycleaning Detergents

Methods of Analysis

Specification tests

Procedure

Performance tests

Procedure

14. Acrylic Ester Resins

15. Alginic Acid

GENERAL INFORMATION

Chemical Structure

Manufacture

Physical Properties

Solution Properties

Compatibilities

Toxicology/Environment

Application Procedures

Film forming

Pie Fillings

Industrial Applications

LABORATORY TECHNIQUES

Viscosity Measurement

Moisture Determination
Powder color determination
16. Cellulose Ethers
General Information
Chemistry
Manufacture
Toxicity and Handling
Solution Properties
Thickening
Powder and Film Properties
Physical and Chemical Properties
Commercial uses: Compounding and Formulating
Adhesives
Agricultural Chemicals
Chemical Specialties
Construction Industry products
Cosmetics
Food Products
Latex paint
Paint Removers
Paper Products
Pharmaceuticals
Printing Inks
Resins
Elastomers
Textiles
Tobacco Sheet
COMMERCIAL USES: Processing Aids
Ceramics
Leather
Polyvinyl Chloride
INDUSTRIES USING ALKYL AND HYDROXYALKYLCELLULOSE
Formulations
Latex Paint
Exterior High-Solids Acrylic
Paint Remover
Scrape-off paint and varnish remover
Mixing
Flash-off Paint Remover Formulation
Construction Industry Products
Food Products

Pharmaceutical products

Tobacco

Leather

17. Sodium Carboxy Methyl Cellulose

Chemical Nature

Physical Properties

Manufacture

Biological Properties

Toxicological Properties

Rheology

Storage and Handling

Applications

18. Guar Gum

Manufacture

Chemical and Physical Properties

Biological Properties

Handling

Applications

Paper

COMMERCIAL APPLICATIONS: Compounding and Formulating

Food

Explosives

COMMERCIAL USES: Processing Aids

Oil and Gas

Textile

Mining

INDUSTRIES USING GUAR GUM

Oil and Gas

Explosives

Food

Paper

Textile

Mining

19. Gum Arabic

Chemical Nature

Physical Properties

Manufacture

Biological/Toxicological Properties

Rheological Properties

Additives/Extenders

Handling

Applications
Application Procedures
Compatibility
COMMERCIAL USES
Food Applications
Pharmaceuticals
Medicines
Cosmetics
Adhesives
Paints
Inks
Lithography
Textiles
Miscellaneous Uses
20. Gum Tragacanth
Chemical Nature
Physical Properties
Preservatives
21. Hydroxyethyl Cellulose
Chemical Nature
Physical Properties
Manufacture
Biological/Toxicological Properties
Rheological Properties of Solutions
Additives/Extenders
Handling
Applications
Application Procedures
Specialties
Future Developments
COMMERCIAL USES: Compounding and Formulating
Protective Colloid in Latex
Thickener for Latex Compositions
Cosmetics and Pharmaceuticals
Paper Sizes and Coatings
Carpet and Textile Dye Pastes
Special Applications
COMMERCIAL USES: Processing Aids
Crude-Oil Drilling and Recovery
Electroplating and Electrowinning
Miscellaneous Binders

Other Specialty Uses

INDUSTRIES USING HYDROXYETHYLCELLULOSE

Adhesives

Agricultural Products

Building Products

Cosmetics

Oil and Gas Extraction

Paints and Coatings

Paper and Allied Products

Synthetic Resins

Textile Mill Products

FORMULATIONS

Copolymer Latex

Latex Interior Flat Wall Paint

Textile Printing

Oil-Well Workover Fluid

Roll-on Antiperspirant

Liquid Shampoo

LABORATORY TECHNIQUES

PRODUCT/TRADENAME/TERM GLOSSARY

FURTHER USEFUL READING

Technical Bulletins

22. Hydroxy Propyl Cellulose

Chemical Nature

Physical Properties

Manufacture

Toxicological Properties

Additives

Handling

Applications

Application Procedures

Specialties

23. Locust Bean Gum

Manufacture

Properties

Biological Properties

Handling

COMMERCIAL USES: Compounding and Formulating

Food Products

COMMERCIAL USES: Processing Aids

Textiles Processing

Paper Products

Mining Industry

INDUSTRIES USING LOCUST BEAN GUM

Food Industry

14-14 Locust Bean Gum

Mining Industry

Paper industry

Textiles Industry

24. Polyacrylic Acid

Physical and Chemical Nature

Methods of Preparation

Polymer Reactions

COMMERCIAL APPLICATIONS

Thickening

Suspending and Dispersing

Flocculation

Binders

Coatings

Leather Paste

Ion-Exchange Processes

Pharmaceuticals

Adhesives

Miscellaneous

25. Polyethylene Glycol

Chemical Nature

Physical Properties

Biological/Toxicological Properties

Manufacture

Handling

Applications

Application Procedures

Additives/Extenders

Specialties

Future Developments

COMMERCIAL USES: Compounding and Formulating

Chemical Intermediates

Adhesives

Agricultural Formulations

Cellophane-Film Humectants

Cosmetics and Toiletries

Detergents and Cleaners

Inks
Paints and Coatings
Pharmaceutical Products
Rubber Compounds
Miscellaneous Products
COMMERCIAL USES: Processing Aids
Ceramics
Dialysis Operations
Electroplating
Heat-Transfer Baths
Leather Treatment
Metal-Working Operations
Paper Products
Petroleum Recovery and Processing
Plastics Compounding
Rubber Products
Textile Products
Wood Products
INDUSTRIES USING POLYETHYLENE GLYCOLS
Adhesive
Agricultural Products
Ceramics Products
Chemical Specialties
Cosmetics and Toiletries
Electroplating and Electrowinning
Food Products
Inks and Printing
Leather Processing
Lubricants and Hydraulic Fluids
Medical Sundries
Metal Fabricating
Packaging Materials
Paints and Coatings
Paper Products
Petroleum Recovery and Processing
Pharmaceuticals
Photographic Products
Plastics Products
Rubber and Elastomers
Textile Products
Wood Processing

26. Poly-Ethylene Oxide

Chemical Nature

Physical Properties

Manufacture

Biological/Toxicological Properties

Rheological Properties

Additives/Extenders

Applications

Application Procedures

COMMERCIAL USES: Compounding and Formulating

Adhesives

27. Polyvinyl Alcohol

Chemical Nature

Physical Properties

Manufacture

Physiological Properties

Federal Drug Administration (FDA) Status

Biochemical Oxygen Demand (BOD)

Biodegradation

Modifiers

Handling and Storage

Application Procedures

COMMERCIAL USES: Compounding and Formulating Adhesives

Paper and Paperboard Sizing

Paper and Paperboard Coatings

Pigmented Coatings

Greaseproof Coatings

Textile Finishing

Binder Applications

Cast Film

Molded Articles

Emulsions and Dispersions

Cosmetics

Chemical Derivatives

COMMERCIAL USES: Processing Aids

Textile Warp Sizing

Temporary Binder

Casting Slips

Steel Quenchant

Miscellaneous Coating Applications

Materials Stabilization

INDUSTRIES USING POLYVINYL ALCOHOL

Textile Industry

Paper Industry

Adhesives Industry

Cast-Film Industry

Building Products Industries

Packaging Industry

Chemical Industry

Cosmetics Industry

Ceramics Industry

Steel Industry

Materials Binding

FORMULATIONS

Textile Warp Sizing: Slasher Operation

Textile Warp Sizing: Size-Bath Formulas

Preparation Procedure

Adhesives

Tubes and Cores: Spiral Winding

28. Polyvinyl Pyrrolidone

Chemical Nature

Physical Properties

Manufacture

Rheological Properties

Toxicological Properties

PVP Films

Compatibilities

Future Developments

APPLICATIONS OF PVP

29. Starch

GENERAL INFORMATION

Structure and Properties

Starch Supplies

Manufacture of Starch

Starch Modifications

Applications of Starches

30. Tamarind Gum

Chemical Nature

Physical Properties

Manufacture

Biological/Toxicological Properties

Electrochemical Properties

Rheological Properties
Additives/Extenders
Handling
Applications
By Result
Application Procedures
Future Developments
COMMERCIAL USES
Processing Aids
INDUSTRIES USING TAMARIND GUM
FORMULATIONS
Latex Manufacture
Other Uses
LABORATORY PROCEDURES
Viscosity Method
31. Xanthan Gum
GENERAL INFORMATION
Chemical Structure
Physical Properties
Solution Properties
Suspensions
Emulsions
Dispersions
Application Procedures
Handling and Storage
Reaction with Galactomannans
Toxicology and Safety
COMMERCIAL USES: Food
Xanthan Gum
Xanthan Gum with Locust Bean Gum
COMMERCIAL USES: Industrial
Xanthan Gum
Xanthan Gum with Locust Bean Gum
32. Flame Retardants for Textiles
Flame Resistance
Durability
Test Methods
Types of Retardants
Application Techniques
Fire-Retardant Fiber Blends
Mutagenicity

About Niir

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