

The Complete Technology Book on Starch and Its Derivatives

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Starch is a group of poly saccharides, composed of glucopyranose units joined together by glucosidic linkages. Starch is also metabolized for energy in plants and animals, and is used to produce a large number of industrial products. Starch is processed to produce many of the sugars in processed foods. The biggest industrial non food use of starch is as adhesive in the paper making process. Other important fields of starch application are textiles, cosmetic and pharmaceutical uses. Starch can be obtained from maize, sorghum, roots and tubers such as tapioca, arrow root, potatoes etc. Starch truly serves as a multifunctional ingredient in the food industry. Starch is one of the most present biomaterials has witnessed significant developments over the years. By products are obtained in the manufacture of different types of starch such as maize gluten has a number of interesting possible uses in industry, zein (by product of corn processing) is used in the preparation of stable glass like plastics, modification of zein is used as adhesives and in the preparation of coating compositions for paper, the most important by product from wheat starch manufacture is gluten which is used in preparing diabetic foods, for feeding cattle, thickening agent in textile printing and so on. The Global starch market is likely to get respite from deceleration in its market growth, with growth poised to receive a new lease of life in the next few years.

This book basically illustrates about the properties, structures, manufacturing process explained with flowcharts and diagrams, applications of starch and its derivatives etc. The major contents of the book are structure and chemical properties of starch, chemical composition, molecular structure, starch granule properties, water sorption and granule swelling as a function of relative humidity, factors affecting starch paste properties, the oxidation of starch etc.

This is a unique book, concise, up to date resource offering a valuable presentation of the subject. This book contains processes of starch and its derivatives. This book is an invaluable resource for new entrepreneurs, industrialists, consultants, libraries.

Contents

1. Structure and Chemical Properties of Starch

Structure and Properties

Chemical Composition

Molecular Structure

Starch Granule Properties

Water Sorption and Granule Swelling as a

Function of Relative Humidity

Factors Affecting Starch Paste Properties

2. The Swelling And Gelatinisation of Starch

The Swelling of Starch

The Gelatinisation of Starch

The Use of Swelling Agents to Study Gelatinisation

Methods of Following the Course of Gelatinisation of Starch : Optical Methods

Methods Depending on Viscosity

The Effect of Injury to Starch Granules before Gelatinisation on the Properties of the Pastes

Viscosity and Structure

The Rigidity of Starch Pastes

3. The Role of the Minor Constituents of Starch

The Role of Phosphorus in Starch

The Formation of 'Werner Complexes'

The Adsorption Theory

The Amylophosphoric Acid Theory

The Significance of Nitrogen in Starch

The Coacervation Theory

Fatty Acids Present in Certain Starches

Other Acids Present in Starch as Esters

4. The Retrogradation of Starch

'Retrogradation' of Starch by Freezing

'Retrogradation' by Solvents

Monomolecular Dispersion

Complete Retrogradation

The Explanation of Retrogradation

Practical Significance of Retrogradation in Industry

The Prevention of Retrogradation

Reactions with Formaldehyde

5. Starch and the Hydrogen Bond

6. The Reaction of Starch with Iodine

The Effect of Heat

Sensitivity of the Reaction

An Abnormal Starch-Iodide Reaction

The Composition of Starch Iodide

Use of Starch Iodide

The Starch-Iodide Reaction in the Spectro-photometric Determination of Starch

7. Root Starches

Manufacture of Potato Starch

Refining the Starch

Drying the Starch

Some Difficulties Occurring in the Manufacture of Potato Starch

Cassava Starch or Brazilian Arrowroot

The Manufacture of Sweet-Potato Starch

8. Cereal Starches

The Manufacture of Wheat Starch

Manufacture of Maize Starch

Early Process. Extracting the Starch

Treating the Starch

Drying

Modern Process

Rice Starch

9. The Oxidation of Starch

OXIDATION OF STARCH IN ACID MEDIA

Oxidation by Nitric Acid

Oxidation by Ammonium Nitrate

Oxidation by Chromic Acid

Oxidation by Permanganates

Oxidation by Hydrogen Peroxide

Oxidation by Halogens

Oxidation by Oxy-halogen Acids

Oxidation by other Per-compounds

Oxidation by Oxides in Acid Solution

Oxidation by Irradiation

Oxidation by Air in Acid Solution

Oxidation by Ozone

OXIDATION OF STARCH IN ALKALINE MEDIA

Oxidation by Hypohalites

Oxidation by Alkaline Chlorite

Oxidation by Alkaline Aktivin

Oxidation by Alkaline Permanganates

Oxidation by Alkaline Peroxides

Oxidation by Air in Alkaline Solution

Electrolytic Oxidation

Oxidation by Alkaline Mercuric Oxide

Oxidation by Alkaline Persulphates

OXIDATION OF STARCH IN NEUTRAL MEDIA

Oxidation by Bromine

Oxidation by Iodine

10. Glucose and Maltose

The Manufacture of Glucose

Raw Materials

Earlier Process

The More Recent Process

The Crystalline Forms of Anhydrous Dextrose and
Dextrose Hydrate

Producing Anhydrous Dextrose

Uses of Glucose

The Manufacture of Maltose

11. Ethyl Alcohol and Acetone

The Manufacture of Ethyl Alcohol

The Amylo Process

The Production of Acetone

12. Dextrin and British Gums

Methods of Manufacture

Raw Materials

The Choice of Acid

Pre-treatment of Starch before Torrifaction

Main Steps in Dextrin Manufacture

Addition of Catalyst

Maturing the Starch

Drying the Starch before Roasting

The Roasting Process

Cooling and Re-moistening the Dextrin

Grinding and Bagging-off Operations
 Conversion of Starch to Dextrin by the Wet Process
 Acid Conversion in the Wet Process
 The Conversion using Enzymes
 13. Modified Starches
 Physical Treatment to Modify Starch
 14. Adhesives from Starch and Dextrin
 Purpose and Applicability
 The Application of Adhesives
 Theoretical Considerations
 Flour Pastes
 Adhesives from Starch
 Treatment with Caustic Alkalies
 Treatment with other Alkaline Substances
 Treatment with Acids
 Treatment with Salts
 Treatment with Oxidising Agents
 Treatment of Starch with Swelling Agents
 Addition of Various Compounds to Starch Adhesives
 Dextrin Adhesives
 15. The Foodstuff Industry
 Potato Products in the Food Industry
 Importance of the Storage History of Potatoes
 Colour of Potato Chips
 Cooking other than Frying
 The Gelatinisation of Starch
 The Effect of Various Factors on Gel-Strength of Starch Pastes
 Uses of Starch on Various Foodstuff Preparations
 Starch in the Baking Industry
 Moisture Absorption by Dough
 The Influence of Other Physical Properties of
 Starch on Baking Quality
 The Diastatic Activity of Flours
 The Chemistry of certain Baking Faults
 16. The Paper Industry
 ENGINE SIZING
 Tub Sizing
 Coated Papers
 Miscellaneous
 17. The Textile Industry
 Sizing of Yarns
 Sizing
 Considerations influencing Sizing
 Mechanical Properties of Starch Films and
 Sized Cloths Arranged in Order of Decreasing Magnitude
 The Effect of Auxiliary Agents on the
 Properties of Sizes and Finishes
 Desizing
 Enzymes
 The Use of Enzymes in Desizing
 The Finishing of Textile Fabrics
 Adhesive Dressings
 Characteristics of Individual Starches

Wheat Flour
 Tinting and Blueing Agents
 The Suitability of Starches and Dextrins
 The Printing of Textile
 Function of the Thickener
 Colour Value
 Starch Products used for Thickenings
 Disadvantages attendant on the Use of Starch Thickenings
 Thickenings of British Gums
 18. Miscellaneous Uses of Starches and Dextrins
 The Soap Industry
 Laundry Starches
 Cosmetic and Pharmaceutical Uses
 Horticultural Uses
 Fire-Proofing Preparations
 Explosives and Fuels
 Some Unclassified Uses
 19. Utilisation of the By-Products of Starch Manufacture
 20. Antiseptic Agents and Preservatives
 21. General Features and Nomenclature of Amylases
 Occurrence
 Composition
 22. Preparation of Enzymes used in the Starch Industry
 Enzymes from Malt
 Preparation of Individual Malt Enzymes
 Enzymes from Moulds or Fungi
 Enzymes from Animal Juices
 Bacterial Enzymes
 23. The Action of α -Amylase on Starch
 Soluble Starch
 HYDROLYSIS OF STARCH BY α -AMYLASE
 α -amylodextrin
 Amyloamylose
 Erythro Bodies
 α - and β -Glucosides
 The Mode of Action of α -amylase
 24. Analysis of Starch and its Derivatives
 General Methods of Analysis
 ANALYSIS OF CORN STARCH
 ANALYSIS OF STARCH DERIVATIVES
 ANALYSIS OF STARCH HYDROLYZATES
 Dextrose
 Saccharide Contents of Acid-Converted Starch Hydrolyzates
 Reducing Sugars
 Schöorl Method : Conversion of Titer Difference to Reducing Sugar
 Assay by Specific Gravity
 Conversion of Commercial Degrees Baumé to % Dry
 Substance for Commercial Corn Syrups and Dextrose Solutions
 Trace Components
 Calcium
 Copper
 Iron
 Chloride

SULFATE
ANALYSIS OF FEED PRODUCTS
Starch
Crude Fiber
Lactic Acid
Xanthophylls
ANALYSIS OF CORN OIL
Iodine Value
Peroxide Value
Free Fatty Acids
Color
Cold Test
Smoke Point
25. List of Material Suppliers
List of Chemical Suppliers
LIST OF MACHINERY / EQUIPMENT SUPPLIERS

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