

# Modern Technology of Confectionery Industries with Formulae & Processes (2nd Revised Edition)

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Confectionery in a broader sense implies the preservation of sweet meat preparation in the form of candies, caramels, chocolate, processed cocoa products and traditional Indian confections. India is a country with a collection of wide range of different cultures and many festivals and occasions are being celebrated in different parts of the nation and confectioneries play a major role in those special occasions. Therefore, the confectionery industry in this country has got a huge potential and this sector has grown recently in the India with the entry of many foreign companies. Special emphasis has been made on describing the various process parameters and equipments used with the help of process diagrams wherever necessary.

This major content of this book are confectionery ingredients, flavour, gelatinizing agents, gums, glazes, waxes, traditional Indian confections, manufacturing processes and formulations of confections, nutritive value of confectionery products. This book also describes about the science and technology of chocolate and confectionery, packaging of confectionery products, quality control, future confectionery industry etc.

Apart from these it also contains details of cooking techniques, formulae, processes. The incorporation of flavours and essences, permitted colours used quality control aspects along with sources of plant, machinery and raw material. This book is an invaluable resource for research centers, professionals, entrepreneurs and end users in academic and industry working on the subject.

## 1. Confectionery Ingredients

-Caramel

-International Standards for Sugar and Sugar Syrups

Reserved Descriptions for sugar Products

-Maltodextrins (Roquette Freres, 1984)

-Dried Glucose Syrups

-Uses of Glucose Syrups and Maltodextrins.

Dextrose Manufacture

Fructose (Levulose)

Sorbitol

Mannitol

Lycasin 80/50

-Nonnutritive (Synthetic) Sweeteners

Saccharin

Cyclamates

Sodium Cyclamate  $C_6H_{12}NSO_3Na$   
Acesulfam K (Acesulfam Potassium)  
Aspartame (Naturasweet, Canderel)  
Talin  
Legislation  
-Invert Sugar  
Use in Confectionery Industry  
Honey  
Malt Extract  
Testing of Refined Sugars  
Anti-Tailing Devices  
Automatic Continuous Sugar Cooker  
Automatic Continuous Sugar Cooker  
Batch Roller  
Cocoa  
Cocoa Moth  
Cocoa Selection  
Fermentation of Cocoa Beans  
2. Confectionery Fats  
-Commonly used fat in confectionery industry  
Production and Processing of Fats  
Refining is Carried in 3 stages  
Chemistry of Fats  
Glycerides, Fatty Acids  
-Hardening Fats  
Packing and Storage of Fats  
3. Milk and Milk Products  
Liquid Milk  
Composition  
Milk Standards  
Dry Milk  
Whey Products  
Lactose  
Condensed Milk, Evaporated Milk  
Block Milk  
Other Milk products  
4. Fruits, Preserved Fruits, Jam, Dried fruits  
Composition of Natural Fruits  
Preservation of fruit and fruit pulps  
Candied and Preserved Fruits  
Jams  
Glazed or Glace Fruit  
-Dried Fruit  
Artificial Drying  
Chellies  
Freeze Drying  
Ginger  
Colouring  
5. Flavour  
Dried Fruit  
Artificial Drying  
Chellies  
Freeze Drying

Nuts

Varieties of Nuts

Storage of nuts

-Starches, Soya Flour, soya protein

6. Gelatinizing Agents, Gums, Glazes, Waxes

Gelatine

Agar-Agar

Agar occurs in three forms

Pectin

Gums

Uses of Gum Arabic

Gum Tragacanth

Guar Gum, Locust Bean (carob) Gum

Guar Gum

Carob gum

Lacquers and waxes

Shellac

Other Glazes

Spermaceti

Carnauba Wax

7. Traditional Indian Confections

Raw Materials

Packaging

8. Confectionery Processes and Formulations

-summary of confectionery Processes

Rolling and Cutting

Casting or Depositing

Hard Candy

Die Forming

Hard Candy

-Manufacturing Process

Fruit and nut bars

Fruit punch chocolates

Butter Creams Chocolate

-Soft candies

-Carbonated Candy

Process of Manufacture

-Seed Confections (Popcorn Balls)

-Cotton Candy

-Coated Confections

Chewing Gum And Bubble Gum

Industry in India

-Toffee

Introduction

Manufacturing Process

-How to cut a Toffee by Toffee Cutter

Formulation For Different Kinds of Toffee

Plain Toffee

Butter toffee

Coconut Toffee

Milk Toffee

Malt Toffee

Plain Chewing Toffee

Chocolate Toffee  
Pistachio Toffee  
Everton Toffee  
Licorice Toffee  
Molasses Toffee  
Molasses Toffee  
Marmalade Toffee  
-Chocolates  
Chocolate toffee  
Chocolate Covered Butter Toffee  
Chocolate Annex Caramels  
Chocolate Caramel Nougat Roll  
Chocolate Honey Tablets  
Chocolate Covered Coconut Caramels  
Chocolate Coating Caramels  
Speciality Chocolates  
-Caramels, Toffees, Butter scotch, Fudge  
The Milk Ingredient  
Reconstitution of Milk Powder  
Fats  
-Large-Scale Production  
Water Activity (ERH)  
Composition  
Colour  
Faults  
Preparation of Agar Jellies, Fruit Slices  
-Coconut Paste, Coconut ICE  
-Creme and Lozenge Pastes, Cachous, Tablets  
Liqueurs  
Chocolate Liqueurs  
Sugar Crust Liqueurs  
Licorice  
Manufacture of Licorice Confectionery  
Legislation  
9. Nutritive Value of Confectionery Products  
Food Value and its Composition  
Carbohydrates  
Fat  
Proteins  
-Mineral Matter  
Vitamins  
-The Labeling of Foods Containing Vitamins  
Disadvantages of Confectionery  
10. BIS Specifications  
11. Science and Technology of Chocolate  
and Confectionery  
-Sugar Confectionery  
Solubility, Saturated and Supersaturated Solutions  
-Relative Humidity, Dew Point, Vapour Pressure,  
-Water Activity Equilibrium relative humidity  
Relative Humidity, Dew Point  
pH, HYDROGEN ION CONCENTRATION  
-Optical Activity

Specific Ration-Dextrose Equivalent

Scientific Instruments

-Spoilage Problems

Chocolate Bloom

Fat Bloom

-Crystallization of Cocoa Butter Under Different Ambient Conditions-Melting Point Changes

Heat Treatment of Chocolate

Fat Bloom-Summary

Sugar Bloom-Causes and Methods of Prevention

Other Faults

12. Packaging of Confectionery Products

Requirement of Packaging

Packaging Requirement

Use of Containers

Packaging Materials

Materials

Metal Cans

Types of Paper

Metal Foil

Foil Containers

Transparent Films

Metallized Films

Shrink and Stretch Films

Laminates

Testing of Wrappers for Various Other Properties

Types of Cans

Built-up Body

-DESSICANT POUCHES

13. Quality Control

-PRINCIPLES OF QUALITY CONTROL

-The Decidina Factor envolved in the Standard of Quality?

Quality Controllers

-How Should Quality Control Be Organized?

-Raw materials

Type of Raw Material

Microbiologicaly Quality Control

Factory Hygiene and Sanitation

14. Research and Development in

the Confectionery Industry

-Reasearch and Development in large Companies

Research and Development in small companies

Research Facilities

Ingredients

Manufacturing Processes

-Conditions To Be Observed During Production

Coloured Coatings and Pastel Coatings

-FORMULATIONS

-DIETETIC COATINGS

Diabetic Chocolate

Carob Coatings

Defatted Wheat Germ

"Slimming" Chocolates

Medicated Chocolates

- Emulsifiers in Chocolate
- Confectionery Coatings and Cocoa
- VEGETABLE LECITHINS
- Soya Lecithin
- Other Vegetable Lecithing
- SYNTHETIC PHOSPHOLIPIDS AND MODIFIED
- VEGETABLE LECITHINS
- Toxicity Checks on YN
- Fractionated and Modified Vegetable Lecithins :
- Use of lecithin in chocolate, cocoa Powder, Chocolate Drinks
- Chocolate
- Cocoa and Drinking Chocolate Powders
- COLOURS FOR CONFECTIONERY
- SELECTION OF COLOURING MATTER
- METHOD OF DISSOLVING
- COMBUSTOR SUGAR BOILER
- CONCHES
- THE SECOND SCHEDULE
- Other Glazes
- 15. Future of Confectionery Industry
- 16. The Marketing of Confectionery
- Plant, Machinery & Equipments
- Directory Section
- Suppliers of Raw Material
- Suppliers of Different Types of Confectionery Machinery

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