Ice Cream is a favourite food of millions around the world. It is a frozen mixture of a combination of component of milk, sweeteners, stabilizers, emulsifiers and flavours. Ice cream is a palatable, nutritious and relatively inexpensive food. No other food enjoys so much popularity and has as attractive a form and appeal as ice cream. Ice cream is composed of the mixture of food materials, such as milk products, sweetening materials, stabilizers, emulsifiers, flavours or egg products which are referred to as ingredients. Milk fat is of major importance in ice cream. It contributes rich flavor to the ice cream, is a good carrier for added flavor compounds and promotes desirable tactual qualities. Stabilizers are used to prevent the formation of objectionable large ice crystals in ice cream. Emulsifiers are used to produce ice cream with smoother body and texture, to impart dryness and to improve whipping ability of the mix. Flavour is considered the most important characteristics of ice cream. It has two characteristics; type and intensity. Classification of ice cream may be based on commercial terms commonly agreed upon or on regulatory composition requirements or flavor labeling standards. Commercially ice cream is classified as plain ice cream, chocolate, fruit, nut, frozen custard, confection, bisque, puddings, mousse, variegated ice cream, Neapolitan, ice milk, lacto, novelties, frappe etc. The basic step of production in manufacturing ice cream are composing the mix, pasteurization, homogenization, cooling, ageing, flavouring, freezing, packaging, hardening, storage, loading out products and cleaning of equipments. Ice cream can be mass produced and thus is widely available in developed parts of the world. Ice cream can be purchased in large cartons from supermarkets and grocery stores, in smaller quantities from ice cream shops, convenience stores, and milk bars, and in individual servings from small carts or vans at public events. Ice cream is expected to continue to expand robustly in India as purchasing power increases and as manufacturers invest in expanding the availability of ice cream in small stores.

Some of the fundamentals of the book are composition of ice cream mixes, the role of the constituents, diet science and classification of ice cream, caloric content of ice cream and related products, milk fat content of ice cream, classification of ice cream and related products, artificially sweetened frozen dairy foods, ingredients of ice cream roles and properties, effect of sweetener on freezing point, influence on ice crystal size and texture, flavour and colour materials and preparation, ice cream mixer preparation processing and mix calculations, the freezing process, the freezing point of ice cream mixes, ice cream handling, cleaning and sanitation, varieties, novelties and specials etc.
It is a comprehensive book which covers all the aspects of manufacturing of ice cream in various flavours. The book is meant for entrepreneurs, technocrats, professionals, researchers, dairy technologists etc.

Contents

1. ICE CREAM-HISTORY AND DEVELOPMENT
   HISTORICAL BACKGROUND
2. COMPOSITION OF ICE CREAM MIXES
   COMPOSITION
   THE ROLE OF THE CONSTITUENTS
   Milk Fat
   Milk Solid Not Fat (MSNF)
   Sweetener Solids
   Egg Yolk Solids
   Stabilizers
   Emulsifiers
   Total Solids
   Water and Air
   Flavour
   IMPORTANCE OF FLAVOUR COLOUR
   OPTIONAL INGREDIENTS
   THE BALANCED MIX
   Conditions That Limit the Balancing of a Mix
   Mix Properties
   Mix Stability
3. DIET-SCIENCE AND CLASSIFICATION OF ICE CREAM
   NUTRITIONAL VALUE
   Energy Value and Nutrients
   Energy Content of Food
   CALORIC CONTENT OF ICE CREAM AND RELATED PRODUCTS
   Energy Content of Ice Cream and Related Products
   Protein Content of Ice Cream
   MILK FAT CONTENT OF ICE CREAM
   MILK FAT CONTENT
   CARBOHYDRATES
   Carbohydrates in Ice Cream
   Minerals
   MINERALS IN ICE CREAM
   VITAMINS
   Vitamins in Ice Cream
   PALATABILITY AND DIGESTIBILITY OF ICE CREAM
   CLASSIFICATION OF ICE CREAM AND RELATED PRODUCTS
   Commerical Grouping of Ice-Cream and Related Products
   Plain Ice Cream
   Chocolate
   Fruit
   Nut
   Frozen Custard
   Confection
   Bisque
   Puddings
Mousse
Variegated Ice Cream
Neapolitan Ice Milk
Fruit Sherbet Ice
Novelties Frappe Granite Souffle
Frozen Yoghurt Lacto
Fruit Salad
Fancy Moulded Ice Cream
This group includes Mellorine-type Products
Artificially Sweetened Frozen Dairy Foods
Non Dairy Frozen Dessert Labelling Requirement Grouping
Regulatory Type Classification
4. INGREDIENTS OF ICE CREAM-ROLES AND PROPERTIES
SOURCES OF MILK SOLIDS NOT FAT
Milk
Milk Products used in Ice Cream Sources of Fat
Skim Milk Butter Milk Concentrated Skim Milk
Sweetened Condensed Milk Skimmed Milk Powder
Special Commercial products Whey Protein Concentrate
Mineral Salts Unsalted Butter
Sweeteners SOURCES OF SUGAR
Effect of Sweetener on Freezing point Sucrose
Corn Sweeteners and Related Ingredients Dextrose Corn Syrup Dried Corn Syrup Invert Sugar
Honey Other Sweeteners Nonnutritive Sweeteners EGG AND EGG PRODUCTS
Fat Replacers Sugar Alcohols Syrups STABILIZERS AND EMULSIFIERS
Function of Stabilizers Influence on Ice Crystal Size and Texture Shape and Body Characteristics
Retention of Air
Role in Fat Destabilization
Control of Sandiness
STABILIZERS
Casein
Sodium Alginate
Carrageenan
Guar Gum
Locust Bean Gum
Sodium Carboxy Methyl Cellulose (CMC)
Pectin
Agar-Agar
Xanthan Gum
Hydroxypropy Methyl Cellulose
Other Gums
Starch
Stabilizer Blends
EMULSIFIERS
Type of Emulsifiers
Glycerides
Distilled Monoglyceride
Polysorbates
Polyglycerol Esters
Fruit Acid Esters
Ethoxylated Mono and Diglycerides
Egg Yolk Solids
Function of Emulsifiers
Whipping Ability and Overrun Control
Stiffness and Dryness
Secondary Effect of Emulsifiers
Selection of Stabilizer and Emulsifier
Processing the Cocoa Beans

5. FLAVOURS AND COLOURS-MATERIALS AND PREPARATION

FLAVOURS FOR FROZEN DESSERTS

VANILLA
Imitation Vanilla Flavourings
Consistency in Vanilla Quality
Vanilla Ice Cream
CHOCOLATE AND COCOA
Chocolate Ice Cream
Freezing Characteristics
Chocolate Confections
FRUITS IN FROZEN DESSERTS
Fresh Fruit
Candied and Glaced Fruits
Dried Fruits

PROCEDURES AND RECIPES
Strawberry Ice Cream
Raspberry Ice Cream
Peach Ice Cream
Cherry Ice Cream
Ice Cream with Complex Flavours
Sugar Free
NUTS
SPICES AND SALT
COLOUR IN FROZEN DESSERTS
FLAVOURING LOWFAT AND NONFAT ICE CREAM

6. ICE CREAM MIXER-PREPARATION PROCESSING AND MIX CALCULATIONS
PREPARATION OF THE MIX
Combining the Ingredients
PASTEURIZATION OF THE MIX
Pasteurization Renders the Mix
There are Two Basic Methods of Pasteurization
Homogenizing the Mix
Physical Effect of Homogenization
Homogenizing Temperature
Location of Homogenizer
Pressure for Homogenization
Care of the Homogenizer
Cooling the Mix
Ageing the Mix
Making the Mix in a Vacuum pan
Forewarming
Concentrating the Dairy Products
Weighing the Concentrated Dairy Products
Adding Sugar and Stabilizer, and Pasteurizing

FLAVOURING MIXES
Cooling, Standardizing and Ageing
PACKAGING MIXES FOR SALE
CALCULATION OF ICE CREAM MIXES
The Importance of Calculations
MATHEMATICAL PROCESSES MOST FREQUENTLY USED
Methods of Calculating Mixes
Pearson Square Method
Arithmetical Method
CALCULATING MIXES WITH THE SERUM POINT METHOD
MIX DECISIONS
SIMPLE MIXES
COMPLEX MIXES

7. THE FREEZING PROCESS
THE FREEZING POINT OF SOLUTIONS
The Freezing Point of Ice Cream Mixes
PREFREEZING TESTS
FREEZING OPERATIONS
CHANGES THAT TAKE PLACE DURING THE FREEZING PROCESS
REFRIGERATION NEEDED TO FREEZE ICE CREAM
TYPES OF FREEZERS
The Continuous Freezer
The Refrigeration System
Operating the Continuous Freezer
Batch Freezer
Freezing Procedure for Batch Freezers

8. ICE CREAM HANDLING
CONSIDERING THE PACKAGE
REQUIREMENTS FOR PACKAGING
Paper
Substance of Paper
Stiffness
Ink
Wax
Adhesive
Wax Content
Odour and Taint
Toxicity
Resistance to Deep Freezing
Leak Proofness
Paper Board
Thickness
Wax Content
Stiffness
Ink
Wax Quality
Adhesive
Odour and Taint
Manufacturer's Joint

THE PACKAGING OPERATION
Packaging for Direct Sale to Consumers
Economy in Packaging Operations

THE HARDENING PROCESS
Factors Affecting Hardening Time
Types of Hardening Facilities
Rapid Hardening Systems

HANDLING, STORING AND SHIPPING
Shipping with Dry Ice
Quality is the Goal

9. CLEANING AND SANITATION
PRINCIPLES OF CLEANING
CLEANING
Rinsing
Removal of Sediment
Removal of Fat
Removal of Proteins
Removal of Mineral Deposits
After Rinsing with Clean Water
Cleaning Agents
Alkalies
Acids
Water Chelating Agent
Emulsifiers and Wetting Agents
Protective Substances
Composite Cleaning Agents
Alkaline Composites

SANITIZATION OF EQUIPMENT
SANITARY ENVIRONMENT

HYGIENIC PERSONNEL

TEST OF THE FINISHED PRODUCT
Hazard Analysis and Critical Control Points (HACCP)
HACCP Principles

SUMMARY
10. DEFECTS AND GRADING OF ICE CREAM

FLAVOUR DEFECTS
Flavouring System
SWEETENER SYSTEM
BODY AND TEXTURE DEFECTS
Defects of Body
Defects of Texture
COLOUR
PACKAGE
MELTING QUALITY
Defects of Melting Quality
Defects in Ice Cream, their Causes and Prevention
EVALUATING FROZEN DESSERTS
SCORING METHODS
ICE CREAM CLINICS

11. VARIETIES, NOVELTIES AND SPECIALS

PLAIN ICE CREAM
Formula
Variations
Vanilla
Strawberry
Rose
Coffee
Caramel
Mint
CANDY ICE CREAM
Variations
Peppermint Stick
Butter Crunch
Peanut Brittle
Toffee
Mint Chips
Mithai Ice Cream (Gulabjamun)
Mithai Ice Cream (Rasogulla)
Mithai Ice Cream (Gajar Halwa)
CHOCOLATE ICE CREAM
Chocolate Malt
Chocolate Malt and Nuts
Chocolate Toffee
Chocolate Cool
FRUIT ICE CREAM
Variations
Banana
Pineapple
Apple
Orange
Orange Pineapple
Lemon
Grape
Custard Apple
Date
Sapota
Mango
Strawberry
Blueberry
Raspberry
NUT ICE CREAM
Variations
Butterscotch
Almond Walnut
Almond Toffee
Peanut
Caramel Nut
Fruit and Nut
Coconut Pineapple
Tutti-Frutti
Banana Nut
VARIEGATED OR RIPPLED ICE CREAM
Probiotic Ice-Cream
Manufacture of Preobiotic Ice-Cream
LABELLING OF PROBIOTIC FOODS
NEW DIET SCIENCE FOR ICE CREAM
SORBET AND ICE CREAM
Manufacturing Procedure
Ice Cream Mix
Sorbet
Freezing
KULFI
Product Description
Technology
Innovations
Formulation of Kulfi
Optional Dairy Ingredients for Kulfi and Frozen Desserts
Sweet Fresh Cream and Fresh Milk
Frozen Cream
Fluid Whole and Skim Milk
Plain Condensed Skim Milk
Plain Condensed Whole Milk
Sweetened Condensed Whole or Skim Milk
Packaging
Physico-Chemical Aspects
Shelf Life
DECORATION
12. ICE CREAM MICROBIOLOGY
ICE CREAM AS A CARRIER DISEASE
THE BACTERIAL COUNT OF ICE CREAM
Mix Ingredients as a Source of Bacteria
Dairy Products as a Source of Bacteria
Sugar as a Source of Bacteria
Stabilizers as a Source of Bacteria
Flavouring Materials as a Source of Bacteria
Strawberries, Raspberries or Black Berries
Peaches
Oranges and Lemons
Bananas and Mangoes
Dried Fruits
Farrall Homogenization Index
MEASUREMENT OF VISCOSITY
Pipette Method
Borden Flow Meter Method
Brookfield Viscometer
Calculation
Test for Ammonia Leaks
Surface Tension

14. ICE CREAM NOVELTY IMPULSE PRODUCTS
MOLDED NOVELTIES
EXTRUDED NOVELTIES

15. ICE CREAM SHELF-LIFE
Temperature Fluctuations and Ice Recrystalliation
The Role of Stabilizers
Maintaining Shelf-Life

16. ICE CREAM INGREDIENTS
Milkfat (or "Butterfat") / FAT
Milk solids-Not-Fat
Lactose Crystallization
Sweeteners
Stabilizers
Locust Bean Gum
Emulsifiers
Polysorbate 80

17. MIX CALCULATIONS FOR ICE CREAM AND FROZEN DAIRY DESSERTS
Problem 1
Solution
Problem 2
Solution
Problem 3
Problem 4
Problem 5
Problem 6
Problem 7 (Using Liquid Sweeteners)

18. STRUCTURE OF ICE CREAM
Colloidal Aspects of Structure
Ice Cream Meltdown
Structure From The Ice Crystals

19. THEORETICAL ASPECTS OF THE FREEZING PROCESS
The Orocess of Crystallization
Importance of Crystallization Rate
Importance of Temperature Fluctuations and Re-Crystallization
Formation of The Glassy Phase in Frozen Foods
Formation of a Dilute Glass

20. ICE CREAM MANUFACTURE
Blending
Pasteurization
Homogenization
Ageing
Freezing and Hardening
Hardening

21. ICE CREAM FLAVOURS
Introduction
Vanilla
Choclate and Cocoa
Fruit Ice Cream
Nuts in Ice Cream
Colour in Ice Cream

22 HOMEMADE ICE CREAM
Ingredients Used
Preparation of the Ice Cream Mix
Aging the Mix
Freezing the Mix
Regular Vanilla Ice Cream
Low Calorie Vanilla Ice Cream
Milk Substitute Vanilla Ice Cream
Hints for Making Good Ice Cream

23 ICE CREAM FORMULATIONS
ICE CREAM MIX GENERAL COMPOSITION       Formulation Considerations
Economy Brands
Standard Brands
Premium Brands
Super-premium Brands
Suggested Mixes

24 AUTOMATIC ICE CREAM BAKING MACHINE AGC-SERIES
Features
ACG Series
Features
Gas Burners
Scraping Device
Cone Ejector
Stacking Device
Output Details
Baking Process

25 NEW PROCESSING TECHNOLOGY -NEW PREMIUM 3D ICE CREAM PRODUCTS
Enhanced Market Opportunities
Low Capital & Flexibility

26 SAMPLE ICE CREAM CONE DRAWING
Design for Cone Diameter 30-40 mm
Design for Cone Diameter 40-50 mm
Design for cone Diameter 50-56 mm
Design for Sugar Cones
Design for Cups

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