

# The Complete Technology Book on Flavoured Ice Cream



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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

Alkalis

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 Probiotic 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



Fruit Juices  
 Nuts  
 Colours as a Source of Bacteria  
 Eggs as a Source of Bacteria  
 Destruction of Bacteria by Pasteurization  
 Recontamination of the Mix after Pasteurization  
 The Effect of Ageing on the Bacterial Count  
 The Effect of Freezing and Hardening on the Bacterial Count.  
**BACTERIOLOGICAL STANDARDS FOR ICE CREAM**  
 Milk and Milk Products  
 Ice Cream Defined  
 Classification of Ice Creams and Related Frozen Foods  
 Composition of Commercial Ice Cream  
 The Ingredients Used in the Manufacture of Ice Cream  
 Quality of Dairy Products for Ice Cream  
 Sweeteners for Ice Cream  
 Ice-Cream Stabilizers  
 Flavouring Materials  
 Preparation of the Ice-Cream Mix  
 Technical Skill Necessary  
 Procedure in Calculating a Mix  
 Homogenizing the Mix  
 Ageing the Mix  
 Quality of Ice Cream  
 Ice-Cream defects  
 Body and Texture Defects  
 Colour Defects  
 Distribution of Ice Cream  
 Ice-Cream Making in the Home  
**13. METHODS OF LABORATORY TESTS**  
**JUDGING FLAVOUR AND AROMA**  
 Gerber Test for Fat in Milk and Cream  
 SNF and Total Solids in Milk by Lactometer  
 Analysis of Fat in ice Cream  
 Ether Extraction Test  
 Preparation of Sample  
 Procedure  
 Gerber Test  
 Apparatus and Reagents  
**PREPARATION OF SAMPLE**  
 Procedure  
 Determination of Total Solids  
 Mojonnier Total Solids Test  
 Procedure  
 AOAC Official Method (AoAC International, 2000)  
 Determination of Acidity in Plain Ice Cream Mix  
 Determination of Free Fat in Ice Cream (Free Fat Estimate or FFE Value)  
 Apparatus and Reagents  
 Procedure  
 Calculation  
 Chromatographic Analysis  
 Stability to Heat Shock  
 Meltdown Test and Shape Retention

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 Process 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  
Chocolater 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 COMPOSITON      Formulation Considerations  
Economy Brands  
Standard Brands  
Premium Brands  
Super-premium Brands  
Suggested Mixes  
24 AUTOMATIC ICE CREAM BAKIGN 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 CRDAM CONE DRAWING  
Design for Cone Diameter 30-40 mm  
Design for Cone Diameter 40-50 mm  
Design for cone Diamoeter50-56 mm  
Design for Sugar Conges  
Design for Cups  
    DIRECTORY SECTION

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