## The Complete Technology Book on Candle Making & Designs

Author: NIIR Board of Consultants and Engineers

Format: Paperback ISBN: 8186623663

Code: NI40 Pages: 354

Price: Rs. 650.00 US\$ 17.56

**Publisher:** National Institute of Industrial Research

Usually ships within 5 days

Candles have been used for luminosity and to light up man's celebrations for more than thousand years. The ancient Egyptians have been credited with the honour of developing the first candle, who used rush lights or torches made by soaking the pithy core of reeds in melted animal fat. However, the rush lights had no wick like a true candle. The development of candle to the present stage went through several stages.

Candle making today has taken a shape of small scale industry. It has got attention of a lot of people. From celebrities to designers all are trying their hand in this emerging industry. One pertinent reason is that the use of candle now has not been confined only for devotional purpose or some special occasion. They are now a part of every single moment is it special or routine. They add a touch of warmth in the occasion and that does why have become largely popular.

Creativity has added a new spark to the candle making industry. Candle making is a very flourishing industry in modern times owing to the versatile use of candles on various occasions and ceremonies. Candles are prepared by well established methods in multifarious fascinating colours, designs and shapes. The book is one of the best seller and has chapters on: Thermometer Weighing scales ,Measuring flask or jug ,Dipping can ,Bowl ,Iron, Hairdryer ,Pouring jug Materials ,Wicking needle ,Wick ,Wax , ,Dipping ,How to dipped candles Method ,More about dipping , Appliquéd candles ,Painting with wax ,Transfers ,Surface techniques Pressed flowers and grasses How to pressed flower candle Over dipping, etc.

This is one of its kind book which deals ostensibly with different candle making processes viz. Dipping, Pouring, Moulding or Casting and Drawing, delineating their technicalities in most illustrious manner with pictorial representations. The book will significantly add your knowledge if you are looking for comprehensive information on candle making industry to start their venture in said industry.

## **Contents**

Introduction
Equipment and materials
Equipment
Heat source
Double boiler
Thermometer
Weighing scales
Measuring flask or jug
Dipping can
Bowl

Iron

Hairdryer

Pouring jug

Materials

Wicking needle

Wick

Wax

Additives

Wax glue

Mould seal

Dyes and perfumes

Creating colour

Using perfumes

Common sense with wax

Working with heat

Fire safety

Working with wax

Preventing accidents

Cleaning up

How to begin

Working with heat

Priming wicks

How to priming wicks

Method

Dipping

How to dipped candles

Method

More about dipping

Over dipping

How to over dipping (blue on white)

Method

Hand finishing

How to plaited candles

Method

How to twisted candles

Method

Rolling

How to flared spiral candles

Method

Beeswax sheet

How to tapered beeswax candles

Method

Hand modelling

Perfumed wax flowers

How to floating rose

Method

Wax fungi

How to fly agaric toadstool

Method

Common sense with candles

Fire Safety

Workshop Wisdom

Prevention

Cure

Dipped candles

Basic dipped candles

Overdipped candles

Spiral candles

Using templates

Floating candles

Beeswax sheets

Column candles

Spiral candles

Decorative candles

Sand candle

Stencilled candles

Surface texture

Appliqued candles

Painting with wax

Transfers

Surface techniques

Pressed flowers and grasses

How to pressed flower candle

Method

Applique

Inlays

How to bulls eye candle

Method

Carving

Method

Dip and iron back

Method

Hammering

Painting

Novelty candles

Whipped wax candles

How to ice cream cone

Method

Birthday cake candles

Balloon candles

How to balloon candle

Method

Sand candles

How to sand candle

Method

Water candles

How to water candles

Method Plunge

Method Pour

Ice candles

How to ice candle

Method

Burning down

Faults

Dipping

Casting in Moulds

Advanced Surface Techniques

Dip and carve

How to dip and carve candle

Method

Peeled Banana

How to peeled Banana Candles

Method Fruit Method skin Cutting corners

How to basic techniques

Method Dipping

Method Cut and Curl Corners

Method spirals

Snakes

Raw Materials

The Fuel

Paraffin Wax

Stearine

Micro Crystalline Wax

Tallow

Beeswax

Vegetable Waxes

The wick

**Candle Making Processes** 

The Dipping Process

Dipping

**Equipment Required** 

The Pouring Process

The Moulding or Casting Process

**Equipment Required** 

Moulding

The Candle Drawing Method

Drawing

Wax Melting

Methods

**Heating Equipment** 

Chemical Colours Used in Candles

Candle Power

Waxes used in Candles

Selection of Good Quality Waxes

Effect of Blending with Stearic Acid on m.pt

Selected Formulations

Foreign Type Candles

Transparent Candles

Procedure

Milky Candles

Procedure

Procedure

Procedure

Procedur

Milky White Candles

Procedure

Procedure

Procedure

Procedure

Procedure

Procedure

Purification of Wax

Coloured Candles Manufacture

Perfumed Candles

Medicated Candles Mosquito Repellent Candles

Formulation of Mosquito Repellant Candle

Procedure

Magic Candles

Formulations for Coloured Flame Candles

Procedure to Prepare Saturated Solution

Petroleum Waxes

Processes And Applications of Petroleum Waxes

Introduction

Manufacture of petroleum waxes

Paraffin Wax

Microcrystalline Wax and Petrolatum

Composition of Petroleum Waxes

Paraffin Wax

Microcrystalline Wax and Petrolatum

Physical Properties of Normal Alkanes

Physical and Mechanical Properties of Waxes

**Physical Properties** 

**Mechanical Properties** 

Toxicity of Petroleum Waxes

Methods of testing paraffin waxes,

Microcrystalline waxes, and petrolata

Melting and Setting Point

Colour

Odour

Oil Content

Penetration (for Waxes ASTM D 1321 65)

Tensile Strength (ASTM 1320 67; TAPPI T 644 os 67)

Viscosity

Industrial Applications of Petroleum Waxes

Paper Packaging Materials

\*Waxed paper

\*Folding cartons

\*Corrugated board

\*Flexible packaging applications

Application equipment for kiss coating and curtain coating

Candles

**Polishes** 

Matches

Wax as a Base Material for the Chemical Industry

Testing of Waxed Paper Products

Water Vapour Permeability

Resistance to Water

**Blocking of Waxed Papers** 

Gloss and Gloss Stability

Scuffing Resistance/Flaking

Sealing Strength

The Mineral Waxes

Petroleum

Petroleum

**Properties** 

Vaseline

Adulteration

Ozokerite

**Properties** 

Uses

The Natural Waxes

Vegetable Waxes

Carnaoba Wax

Physical and Chemical Data

**Chemical Composition** 

Adulteration

Technical

\*Source

\*Yield

\*Method

\*Refinement

\*Grades

Candelilla Wax

**Animal Waxes** 

Wool Wax

General and Analytical

Physical and Chemical Data

**Chemical Composition** 

Technical

Properties and Uses

Beeswax

General and Analytical

Physical and Chemical Data

**Chemical Composition** 

Adulteration

**Preliminary Test** 

Technical

Source

Method of Obtaining Wax

Refinement

Spermaceti

Insect Wax

Bitumen Waxes

Refinement

Refinement by means of Nitric acid

Candle Making Plant & Machineries with

Photographs & Supplier Details

**Product Catalogue** 

**Directory Section** 

Suppliers of Raw Materials

A. Paraffinic Wax

B. Supplier of Stearic Acid

C. Crude Petroleum

Plants & Machineries Suppliers/ Manufacturer
Fractionating, Distillation Column: Reboilers
Condenser
Storage Tanks
Heat Exchanger
Filter Press
Boilers
Thermometer
For Moulding/Casting
Water Bath
Mixer 320

## **About NIIR**

**NIIR PROJECT CONSULTANCY SERVICES (NPCS)** is a reliable name in the industrial world for offering integrated technical consultancy services. NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our various services are: Detailed Project Report, Business Plan for Manufacturing Plant, Start-up Ideas, Business Ideas for Entrepreneurs, Start up Business Opportunities, entrepreneurship projects, Successful Business Plan, Industry Trends, Market Research, Manufacturing Process, Machinery, Raw Materials, project report, Cost and Revenue, Pre-feasibility study for Profitable Manufacturing Business, Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Business Opportunities, Investment Opportunities for Most Profitable Business in India, Manufacturing Business Ideas, Preparation of Project Profile, Pre-Investment and Pre-Feasibility Study, Market Research Study, Preparation of Techno-Economic Feasibility Report, Identification and Section of Plant, Process, Equipment, General Guidance, Startup Help, Technical and Commercial Counseling for setting up new industrial project and Most Profitable Small Scale Business.

NPCS also publishes varies process technology, technical, reference, self employment and startup books, directory, business and industry database, bankable detailed project report, market research report on various industries, small scale industry and profit making business. Besides being used by manufacturers, industrialists and entrepreneurs, our publications are also used by professionals including project engineers, information services bureau, consultants and project consultancy firms as one of the input in their research.

Our Detailed Project report aims at providing all the critical data required by any entrepreneur vying to venture into Project. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.

NIIR PROJECT CONSULTANCY SERVICES, 106-E, Kamla Nagar, New Delhi-110007, India. Email: npcs.india@gmail.com Website: NIIR.org

Wed, 13 Mar 2024 14:42:31 +0530