AN ISO 9001 : 2015 CERTIFIED COMPANY

Handbook on Soaps, Detergents & Acid Slurry (3rd Revised Edition)

FREE SAMPLE: contents and introduction of the 800-page book

Price: Rs 1,575 | US$ 42.56

Order the full book >

AN ISO 9001 : 2015 CERTIFIED COMPANY

Author: NIIR board
Format: paperback
Code: NI38
Pages: 800
Price: Rs 1,575 | US$ 42.56
Publisher: NIIR PROJECT CONSULTANCY SERVICES
Shipping: 5 days

About the Book

Novelty in ideas and marketing seems to be the major subject matter of the Indian soap industry. The soaps, detergent and acid slurry product industry are vivacious, varied, creative and tricky, and have the prospective to provide a gratifying career. Soaps and detergents are used frequently in our daily life. We use them to wash our hands and clean our clothes without ever really paying attention to how they work. Beneath the plain white surface of a bar of soap lie an intriguing history and a powerful chemistry. It has been said that amount of soap and detergent consumed in a country is a reliable measure of its civilizations. There was a time when these products were luxury; now it is a necessity. Acid slurry is a sulphonation product made by sulphonation of linear alkyl benzene by oleum or so3 or sulphuric acid or combinations of above. It is used in manufacturing of various detergents. The Soap and Detergent industry is profoundly lucrative with splendid market potential as well as bright future scope. In order to meet the requirement of market demand, many more new units are recommended to be established on small and cottage scale. Soaps and detergents are very similar in their chemical properties. However, there is a significant difference between them; soaps are produced from natural products, and detergents are synthetic, or manmade. The market is expected to grow at rates ranging from under 4% to around 4.5%. These are very modest rates considering that the lifestyles not only of urbanites, but even of well off rural folks are changing at a very high pace. The analysts are expecting the industry to continue to grow in both the industrialized as well as developing nations. The present book has been written keeping in view the basic difficulties of the entrepreneurs. Nominal investment is required for this industry which comprises simple method of processing for manufacturing of various types of soaps, detergents and acid slurry. The book contains chapters on: acid slurry, detergent manufacturing, detergents of various types, principal groups of synthetic detergents, inorganic components of detergents, synthesis of detergents, liquid detergents, packaging of soaps and detergent and many more such chapters. The enclosure also contains a list of suppliers of raw material (overseas) and list of plant and machinery suppliers (overseas). Fundamental information in venturing a market and the opportunity and prerequisite of the potential sector has been the superlative way to make a way into in a market. How and what if correctly taken care can take you to a long way. The first hand information on different types of soaps, detergent and acid slurry products have been properly dealt in the book and can be very useful for those looking for entrepreneurship opportunity in the said industry.

Contents

1. ACID SLURRY
Chemical Name of Acid Slurry
Difference Between Soft and Hard Slurry
Sulphonation of Dodecyl Benzene or Preparation of Acid Slurry
Plant & Machineries Details for Manufacturing Acid Slurry
Raw Materials for Acid Slurry
Process of Manufacture
Manufacturing Steps of Acid Slurry
The Main Advantages Using Oleum
Precautionary Measures for Handling Sulphuric acid and Oleum
Raw Material Requirements
Market Potential
Alpha Olefins
Process of Manufacturing Alpha Olefins
Reactions
2. DETERGENT MANUFACTURING (Comm. Grade)
Other Additives
Procedural details of manufacturing 'Commercial' Detergent Powders
3. DETERTENTS OF VARIOUS TYPES
Detergent Powder
Metal Cleaners
Liquid Detergents
Detergent (Nirma Type)
Detergent Cake
4. PRINCIPAL GROUPS OF SYNTHETIC DETERGENTS
Classification
Anionic Detergents
Cationic Detergents
Non-ionic Detergents
Amphoterics and Zwitterionics
Biodegradability
5. INORGANIC COMPONENTS OF DETERGENTS
Builders and Other Additives
Phosphates
Silicates
Zeolites
Carbonates
Oxygen-releasing Compounds
Sundry Inorganic Builders
6. SYNTHESIS OF DETERGENTS
Raw Materials for Anionic Synthetic Detergents
Alkyl Benzene
Methyl Esters
Sulphonation of Detergent Raw Materials
Sulphonation with SO3
Sulphonation Processes
Non-ionic Detergents
Cationic Detergents
Amphoteric Detergents
7. MANUFACTURE OF FINISHED DETERGENTS
Powders

Liquid Detergents
Paste Detergents
Solid Detergents
Fabric Softners
Abrasive Cleaners
8. APPLICATION AND FORMULATION
OF DETERGENTS
Foam
Household Cleaning
Hard Surface Cleaners
Solvent Detergent
Carpet and Upholstery Cleaners
Textile Dressing
Food and Dairy Industries
Detergent Sanitizers
Metal Cleaners
Miscellaneous Cleaners
9. TECHNOLOGY OF MANUFACTURING
SYNTHETIC DETERGENTS
Introduction
Performance Criteria
Formulation Requirements
Approach to Product Formulation
Production of Detergent Active
Sulphonation
Additives to Detergent Actives
Production of Detergent Powder by Dry Mixing
Machine-mixing
Production of Detergent Bars
Liquid Detergents
10. MANUFACTURE OF DETERGENT PRODUCTS
Health and Safety Factors
Production Procedure
Derivation of Linear Alkyl Benzene (LAB)
Derivation of Fatty Alcohols
Process Based on Natural Fats
Process based on Ethylene Source
Sulphonation of Lab with 98 percent Sulphuric Acid
Detergent Powder Prepared Without using Spray Dryer
(High Bulk Density)
11. LIQUID DETERGENTS
Requisites of Surfactants for Formulating Liquid Detergents
Surfactants Most Commonly Used
Builders
Viscosity Controllers
Other Ingredients
Household Liquid Detergents for Laundering
Typical Formulations
A Recommended Formulation
12. PACKAGING OF SOAPS AND DETERGENTS
Introduction

Packaging Material Specifications
Package Testing Methods
Other Tests
Packaged Commodities Rules
13. RAW MATERIALS (OILS AND FATS)
Classification of Fats/Oils
Some of the Most Useful, Fats and Oils
Purification of Soap Fats
Non Fatty Raw Materials for Soap
Other Additives (Foam Producers)
14. MANUFACTURING PROCESS AND FORMULATIONS OF VARIOUS SOAPS
(A) Washing Soaps
(B) Nerol Washing Soap
(C) Toilet Soaps
(D) Carbolic Soaps
(E) Shaving Soaps
(F) Special Soaps
(G) Vaseline Soap
(H) Liquid Soap
(I) Girt Soaps
(J) Depilatory Soaps
(K) Metallic Soaps in Protective Coating Industry
(L) Liquid Dental Soap
(M) Medicated Soap
15. TECHNOLOGY OF SOAP MANUFACTURING
Manufacturing Soap
Glycerine Recovery
Production of Laundry and Toilet Soaps
Production of Filled Soaps on the Mazzoni
Technology of Toilet Soaps
Process Control
Other Soaps
16. TECHNOLOGY OF SOAP MANUFACTURING
Health and Safety Factors
Classification of Soap Products
Methods of Manufacture
Various Finishing Methods
Production
Washing bar/cake soap from neat soap
Semi-boiling process and cold-made process
Production of washing bar/cake soap by semi-boiling/ cold -made process
Toilet soap
Medicated Soaps
Castile Soap by Boiling Process
Various Industrial Soaps
Laundry Washing Aids
More Laundry Wash Mixtures
Shaving Soaps
Shaving Cream

Liquid Soaps/Shampoos
Shampoos
Soap Shampoos
Shampoos Based on Synthetic Surfactants
General formulations
17. SOAP MAKING BY CONTINUOUS PROCESS
(Quicker Methods)
Method of Continuous Saponification of Fats by Alkali Solution.
Continuous Neutralization Process
Continuous neutralization Process Using Fatty Acids Instead of Fats
Batch Methods of Splitting Fats in to fatty Acids and Glycerol
Purification of Fatty Acids
18. CLEANSING MECHANISM
Characteristics of Soap
Saponification of Fats - The Basic Chemical Reaction Making Soap
19. DIRECTORY SECTION
List of Suppliers of Raw Material (Indigenous)
List of Plant and Machinery suppliers (Indigenous)
List of Suppliers of Raw Material (Overseas)
List of Plant and Machinery suppliers (Overseas)

Get the full book

This sample shows only the contents and introduction. The full book has every chapter.
Price: Rs 1,575 | US$ 42.56
Delivery: Shipped within 5 working days of payment
Order online: niir.org/books/soaps-detergents-acid-slurry-handbook/ **WhatsApp:** +91 9097-075-054

Planning a unit? NPCS project reports:

- Linear Alkyl Benzene project report
- Detergent Powder project report
- Fatty Alcohol project report
- Sulphuric Acid project report

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, Market Research, Manufacturing Process, Machinery, Raw Materials, Project Feasibility, Investment Opportunities, Technical Consultancy and Startup Help.

NPCS also publishes process technology books, technical books, startup books, directory, business database, detailed project reports and market research reports.

Our Detailed Project Report aims at providing all the critical data required by entrepreneurs for starting new business ventures.

NIIR PROJECT CONSULTANCY SERVICES
106-E, Kamla Nagar, New Delhi-110007, India

Email: npcs.india@gmail.com **Website:** https://www.niir.org/



Scan to order the full book on niir.org