

The Complete Technology Book on Detergents (2nd Revised Edition)

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About the Book

The Indian detergent industry is about three decades old. An interesting and unique feature of detergent industry in India is the existence of non power operated units which do not use any electrical power for the production of detergent powder. But the production technology of detergents have been changed involving high technique in process control, more skilled personnel and requiring large input. There are various forms of detergents; liquid detergents, paste detergents, solid detergents etc. Whether in liquid or in powdered forms, present detergent products are complex mixtures of several ingredients including performance additives such as bleaches, bleach activators etc. The scope and spectrum of methods and techniques applied in detergent analysis have changed significantly during the last decade..

The book outlines features and experimental parameters for many essential procedures, and emphasizes the latest techniques and methods. This book emphasizes practical aspects of detergent production with latest development and other special products based on synthetic surfactants. This book basically deals with the builders, additives and components of detergents, recent developments in surfactant, manufacture of active Ingredients for detergents, manufacture of finished detergents, application and formulation of detergents, packaging of detergents, analysis of detergents, machinery photographs with their suppliers, directory of raw material suppliers etc.. This is an attempt to fill the need of those desirous of starting detergent industry in small scale sector and necessarily contains analytical methods for testing and evaluation of raw as well as final products.

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Amphoteric Surfactants

Alkylolamides

Cationic Surfactants

2. Builders, Additives and components of
detergents

Phosphates

Silicates

Soluble glass

Water glass

Soluble powders

Contribution by the alkaline radical

(Na₂O or K₂O)

Contribution by the SiO₂ radical

Zeolites

Carbonates

Sodium Carbonate or Soda Ash-Na₂CO₃

Sodium Bicarbonate-NaHCO₃

Sodium Sesquicarbonate, or Modified Soda

Potassium Carbonate

Oxygen-releasing Compounds

Sundry Inorganic Builders

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Sodium Chloride

Magnesium Sulphate

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Saccharose or sucrose or table sugar

C₁₂H₂₂O₁₁

D-Mannose

D-Galactose

b-Glucosamine

Anionic surfactants

Cationic surfactants

Nonionic surfactants

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