

How to Manufacture Rubber Processing Chemicals

Rubber Additives, Rubber Chemical Additives

(Waxes, Amines, Synthetic Organic Chemicals, Silicone Resins, Silicone Fluids, Antioxidants and Antiozonants, Stabilizers, Nitrogen Compounds, Sulfuric Acid)

Introduction

Rubber Technology is the subject dealing with the transformation of rubbers or elastomers into useful products, such as automobile tires and rubber mats. The materials includes latex, natural rubber, synthetic rubber and other polymeric materials, such as thermoplastic elastomers.

The growth of rubber chemicals market is directly aligned with growth of tyre industry in the country.

Most rubber-processing chemicals are older products and are consumed predominantly in the manufacture of automotive tires.

Because of increasing consolidation in the tire industry, the major tire manufacturers are in a strong position to demand low prices for rubber-processing chemicals while still maintaining the demand for high quality, product improvements, efficient delivery and strong technical support.

Growing population coupled with increase in purchasing power among consumers has boosted the overall demand for automobiles. Rubber processing chemicals play a crucial role in enhancing the properties of rubber for its use in the manufacturing of automotive tires. Thus, the growing automobile industry is projected to boost the overall growth of rubber processing market.

Rubber processing chemicals not only adds superior qualities to rubber but also enhances the overall process of manufacturing the raw material for other applications such as manufacturing of door mats. However, the growing environmental concerns coupled with stringent governmental regulations are expected to restrain the overall growth of the rubber processing market. The development of bio based rubber is expected to open new avenues for the rubber processing chemicals market.

The market of rubber processing chemicals is highly consolidated in nature. Owing to the consolidated nature of the tire industry, leading tire manufacturers are in a strong position to demand for low prices for rubber processing chemicals. The tire manufacturers also demand for product improvements, efficient delivery, high quality and strong technical support.

Rubber Chemicals are essential additives for the manufacture and quality improvement of rubber products such as automobile tires, rubber hoses, and quake absorbing rubbers. For rubber processing and compounding certain chemicals are required which are known as rubber chemicals. The primary requirement of adding different compounding ingredients to develop the different grades of rubber compounds to meet various service needs at an economic price and to provide certain desired physical properties to a considerable extent.

Some of the examples of rubber chemicals are waxes, amines, thiazoles, silicone resins, alcohol, sulphuric acids, dithiocarbamates, phosphoric acid etc. They are mostly applicable for white and coloured rubber. They are generally used in rubber tubing, conveyor belt cover balloons, hot water bottles injection bottle caps, footwear related items etc. Indian rubber chemical industry has high growth potential triggered by increased consumption and steady growth in tyre and rubber industries. The speciality chemicals industry in India is projected to grow at 15–17 % per year to reach \$ 80–100 billion by 2020. The demand for rubber chemicals is on the rise.

All major manufacturers have raised the prices of their products substantially. Massive investment is expected to flow into the rubber chemicals manufacturing sector in India in the coming years from both domestic and global players.

The book covers different types, physical and chemical properties, applications of different rubber chemicals like waxes, synthetic organic chemicals, amines, silicones resins, releasing agents, stabilizers, solvents and many more.

Some of the fundamentals of the book are synthetic hydrocarbon waxes, uses of amines in polymers, synthetic organic chemicals, analysis of specific anti-degradants, stabilization of halogenated polymers, anaerobic fermentations, the manufacture of sulfuric acid, analysis of dithiocarbamate esters, sodium hyposulfite (hydrosulfite), citric acid, gluconic acid, acetic acid, itaconic acid, kojic acid etc.

Rubber chemicals have a huge potential growth in future and considering the importance of the chemical we have brought out this book which will be an invaluable resource to rubber chemical manufacturers, technocrats, researchers, consultants and new entrepreneurs.

Table of Contents

1. Waxes

Petroleum Waxes

Paraffin Waxes

Microcrystalline Waxes

Uses

Test Methods

Safety

Natural Waxes

Vegetable Waxes

Animal Waxes

Mineral Waxes

Synthetic Waxes

Synthetic Hydrocarbon Waxes

Miscellaneous Synthetic Waxes

2. Amines

Physical Properties

Chemical Properties

Manufacture

Uses of Amines in Polymers

Catalysts

Solvents

Emulsifiers

Compounding and Finishing

3. Thiazoles

Antifungal Activity

4. Synthetic Organic Chemicals

Chemicals Derived from Methane

Synthesis Gas

Chlorinated Methanes

Acetylene
Carbon Disulfide
Chemicals Derived from Ethylene
Polyethylene
Ethylene Oxide
Chlorinated Hydrocarbons
Ethanol
Ethylbenzene
Acetaldehyde, Acetic Acid, Vinyl Acetate
Ethylene Oligomers
Chemicals Derived from Propylene
Isopropyl Alcohol
Polypropylene
Acrylonitrile
Propylene Oxide
Dodecene, Nonene, Cumene
Oxochemicals
Glycerine

Butanes, Butylene, LPG and Higher Aliphatic Hydrocarbons

LPG and n-Butane

Isobutane

n-Butylenes

Isobutylene

n-Pentane and Cyclopentane

Isopentane

n-Paraffins, Monoolefins, Primary and Secondary Higher

Alcohols

Aromatic Chemicals

Benzene Products

Toluene Products

Chemicals from Xylene

Naphthalene Chemicals

Other Polymethylbenzenes

5. Silicone Resins

Manufacture

Surfactants and Specialties

Emulsions

Greases and Compounds

Surfactants

Primers and Adhesion Promoters

6. Silicone Fluids

Silicone Elastomers

Azine and Related Dyes

Methods of Manufacture

Commercial Grade and Specifications

Methods of Analysis

Identification

Assay Methods

Application Methods

Determination of Impurities

7. Antioxidants and Antiozonants

Testing and Evaluation Methods

Antioxidants

Antiozonants

General Methods of Analysis

Separation and Identification

Gas Chromatography

Paper Chromatography

Adsorption Chromatography

Thin-Layer Chromatography

Color Tests for Antidegradants

Spectrophotometric Identification of Antidegradants

Quantitative Determination

Analysis of Specific Antidegradants

N-Phenyl-2-Naphthylamine

Separation and Identification

Assay Methods

Determination in Mixtures

Acetone-diphenylamine Reaction Products

Separation and Identification

Assay Methods

Determination in Mixtures

1,2-Dihydro-2,2,4-trimethyl-6-ethoxyquinoline

N-1,3-Dimethylbutyl-Nâ€™TM-phenyl-p-phenylenediamine

Separation and Identification

Assay Methods

Determination in Mixtures

N,N-Di-3-(5-methylheptyl)-p-phenylenediamine

Separation and Identification

Assay Methods

Determination in Mixtures

2,6-Di-tert-butyl-p-cresol

Separation and Identification

Assay Methods

Determination in Mixtures



Polygard
Separation and Identification
Assay Methods
Determination in Mixtures
Release Agents
Properties Required
Methods of Application
Industrial Fields using Abherents
Classes of Release Agents

8. Stabilizers

Methods
Stabilization of Polyolefin Resins
Stabilization of Halogenated Polymers
Commercial Stabilizer Materials and Mixtures
Epoxides
Miscellaneous Special-Purpose Stabilizers

9. Alcohol

Fermentation

Anaerobic Fermentations

10. Nitrogen Compounds

Ammonia Synthesis

Uses of Ammonia

Storage and Transport

Nitric Acid

Production

Uses of Nitric Acid

Ammonium Nitrate

Hexamethylenetetramine

Hydrazine

Manufacture

Stabilization

Urea

Uses of Urea

Hydrogen Cyanide

Acrylonitrile

Melamine

Amines

Aniline

Isocyanates

Other Nitrogen Compounds

11. Sulfuric Acid

Uses of Sulfuric Acid

Kinds of Acid

The Manufacture of Sulfuric Acid

Development of the Sulfuric Acid Industry in the United States

The Chamber Process for Making Sulfuric Acid

The Contact Process

Sulfur

Uses

Sources

12. Dithiocarbamates

Dithiocarbamic Acid Salts

Analysis of Dithiocarbamate Salts

Dithiocarbamate Esters

Analysis of Dithiocarbamate Esters

Thiuram Disulfides

Analysis of Thiuram Disulfides

13. Other Chemicals

Sodium Chloride

Soda Ash, The Commercial Sodium Carbonate

Solvay Process

Soda Ash from Other Sources

Soda Ash-related Products

Sodium Sulfate

Salt Cake

Glauber Salt

Hydrochloric Acid

Sodium Silicate
Bromine and Bromides
Sodium Sulfides
Sodium Thiosulfate
Sodium Bisulfate, Anhydrous
Sodium Hyposulfite (Hydrosulfite)
Caustic Soda and Chlorine
Electrolysis of Brine
Concentration of the Caustic Liquor
The Mercury Cell
Hydrogen Disposal
Other Processes for the Production of Chlorine
Liquid Chlorine
Bleaches

14. Organic Acids

Citric Acid
Gluconic Acid

Acetic Acid
Itaconic Acid
Kojic Acid
Other Ketogenic Fermentations
Sorbitol
2-Ketogluconic Acid
Nonionic Surfactants
Amphoteric Surfactants

15. Phosphoric Acid

Production of Elemental Phosphorus and Phosphoric Acid
Industrial Phosphates
Sodium Pyrophosphate
Wet-Process Phosphoric Acid
Potassium Salts
Soluble Potassium Salts
Potassium Nitrate
Types of Volatile Solvents

Niir Project Consultancy Services (NPCS) can provide Process Technology Book on Rubber Chemicals

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Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

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- *Bamboo And Cane Based Projects*
- *Building Materials And Construction Projects*
- *Biodegradable & Bioplastic Based Projects*
- *Chemicals (Organic And Inorganic)*
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- *Coconut And Coconut Based Products*
- *Cold Storage For Fruits & Vegetables*
- *Coal & Coal Byproduct*

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- *Essential Oils, Oils & Fats And Allied*
- *Engineering Goods*
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- *Fast Moving Consumer Goods*
- *Food, Bakery, Agro Processing*

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- *Hospital Based Projects*
- *Herbal Based Projects*
- *Inks, Stationery And Export Industries*

- *Infrastructure Projects*
- *Jute & Jute Based Products*
- *Leather And Leather Based Projects*
- *Leisure & Entertainment Based Projects*
- *Livestock Farming Of Birds & Animals*
- *Minerals And Minerals*
- *Maize Processing(Wet Milling) & Maize Based Projects*
- *Medical Plastics, Disposables Plastic Syringe, Blood Bags*
- *Organic Farming, Neem Products Etc.*

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- *Paper And Paper Board, Paper Recycling Projects*
- *Printing Inks*
- *Packaging Based Projects*
- *Perfumes, Cosmetics And Flavours*
- *Power Generation Based Projects & Renewable Energy Based Projects*
- *Pharmaceuticals And Drugs*
- *Plantations, Farming And Cultivations*
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- *Plastic, PVC, PET, HDPE, LDPE Etc.*

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- *Real Estate, Leisure And Hospitality*
- *Rubber And Rubber Products*
- *Soaps And Detergents*
- *Stationary Products*
- *Spices And Snacks Food*
- *Steel & Steel Products*
- *Textile Auxiliary And Chemicals*

- *Township & Residential Complex*
- *Textiles And Readymade Garments*
- *Waste Management & Recycling*
- *Wood & Wood Products*
- *Water Industry(Packaged Drinking Water & Mineral Water)*
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