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

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