

# 3 Latex Compounding Ingredients

The different compounding ingredients used in rubber latex can be grouped into curing agents, sulfur, accelerators, antioxidants, fillers, pigments, stabilisers, thickening and wetting agents, and other ingredients such as: heat sensitisers, plasticisers, viscosity modifiers, and so on.

## 3.1 Compounding Ingredients

### 3.1.1 Curing Agent: Sulfur

Sulfur is the universal vulcanising agent for natural rubber and also for synthetic rubbers, which contain olefinic unsaturation in the polymer chain, whether these polymers are in latex form or in the form of dry rubber. Sulfur is the main vulcanising agent for natural rubber, synthetic polyisoprene, styrene-butadiene rubber, acrylonitrile-butadiene rubber, polybutadiene rubber, and so on. The crosslinks formed during sulfur vulcanisation of olefinically unsaturated rubber are of three types: monosulfidic, disulfidic and polysulfidic. The relative properties of above crosslinks have an implication in the mechanical and ageing behaviour of vulcanisates. Monosulfidic and disulfidic crosslinks give better ageing resistance compared to polysulfidic linkage, whereas the initial tensile properties are better for a rubber vulcanisates with polysulfidic linkage. When the amount of sulfur used is high, a higher percentage of polysulfidic linkage is formed.

Sulfur to be used for latex compound should be of good quality and easily dispersed in water. Colloidal sulfur is preferred for latex compounds, which is obtained by a reaction between hydrogen sulfide and sulfur dioxide in an aqueous medium [1].

Thiurams, for example, tetramethylthiuram disulfide (TMTD) with disulfidic linkage can be used as a vulcanising agent in olefinically unsaturated rubber in the absence of elemental sulfur (sulfurless curing). This type of curing is superior to conventional curing for heat resistance, oxidative aging resistance, and so on.

Butyl xanthogen disulfide (at 4 phr) in presence of zinc oxide can be used for vulcanising rubber latex without elemental sulfur. Vulcanisate properties of this system are inferior to those obtained using the thiuram system.

# Practical Guide To Latex Technology

**A Gutmann**



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## **Table of Contents Practical Guide To Latex Technology**

1. Understanding the eBook Practical Guide To Latex Technology
  - The Rise of Digital Reading Practical Guide To Latex Technology
  - Advantages of eBooks Over Traditional Books
2. Identifying Practical Guide To Latex Technology
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Practical Guide To Latex Technology
  - User-Friendly Interface
4. Exploring eBook Recommendations from Practical Guide To Latex Technology
  - Personalized Recommendations
  - Practical Guide To Latex Technology User Reviews and Ratings
  - Practical Guide To Latex Technology and Bestseller Lists

5. Accessing Practical Guide To Latex Technology Free and Paid eBooks
  - Practical Guide To Latex Technology Public Domain eBooks
  - Practical Guide To Latex Technology eBook Subscription Services
  - Practical Guide To Latex Technology Budget-Friendly Options
6. Navigating Practical Guide To Latex Technology eBook Formats
  - ePub, PDF, MOBI, and More
  - Practical Guide To Latex Technology Compatibility with Devices
  - Practical Guide To Latex Technology Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Practical Guide To Latex Technology
  - Highlighting and Note-Taking Practical Guide To Latex Technology
  - Interactive Elements Practical Guide To Latex Technology
8. Staying Engaged with Practical Guide To Latex Technology
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Practical Guide To Latex Technology
9. Balancing eBooks and Physical Books Practical Guide To Latex Technology
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Practical Guide To Latex Technology
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Practical Guide To Latex Technology
  - Setting Reading Goals Practical Guide To Latex Technology
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Practical Guide To Latex Technology
  - Fact-Checking eBook Content of Practical Guide To Latex Technology
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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