



# 橡胶工业

Xiangjiao Gongye  
China Rubber Industry

第 57 卷第 7 期(1953 年创刊)  
2010 年 7 月 25 日出版

经国家科委批准出版  
月刊 国内外发行

## 目 次

### 应用理论

- ZSC/氢化丁腈橡胶并用的性能研究 ..... 朱伶俐,赵素合,姚楚,李硕(389)  
稀土偶联剂 WOT 对纳米碳酸钙/SBR 复合材料性能的影响 ..... 汪月琼,陈玉坤,贾德民,冷海强,陈俊,郑德(395)  
基于变帘线参数的商用车膜式空气弹簧刚度特性研究 ..... 何峰,蔡永周,曹龙田(401)

### 原材料·配方

- TPI 形状记忆性能研究 ..... 徐福勇,柏林,张合伟,姚薇,刘庆华(406)  
硅橡胶与金属粘合性能研究 ..... 叶林铭,黄光速,于连江,张光亚(411)  
原位生成法制备沉淀法白炭黑/NR 复合材料的工艺研究 ..... 唐铭徽,李超,桂红星,廖建和,廖小雪(415)  
0.25+6+12×0.225HT 钢丝帘线在全钢载重子午线轮胎胎体中的应用 ..... 张勋民,曾清,杨利伟(419)

### 产品·设计

- 导尿管胶膜表面接枝共聚改性研究 ..... 孙琴,余和平,卢光,曾宗强(421)  
农业机械用特种切边 V 带的研制 ..... 邵海根,渠权,吴艳铭,沈玉海,刘莉(427)

### 工艺·装备

- 基于滑动窗的 RPLS 在线校正模型在橡胶混炼质量控制过程中的应用 ..... 陈可娟,刘林涛(430)  
基于现场总线的橡胶密封条生产线控制系统 ..... 陆建章,石路,周培峰,洪巍,杜正春(435)

### 测试·分析

- 轮胎断面测量系统的快速图像拼接方法 ..... 林绮,马铁军(438)

### 综述·专论

- 高性能 ESBR 制备技术 ..... 张洪林(442)



# China Rubber Industry (Xiangjiao Gongye)

Vol. 57 , No. 7 , July 2010

• Monthly •

## Contents

### Applied Theory

- Study on properties of ZSC/HNBR blends ..... *ZHU Ling-li, ZHAO Su-he et al.* (389)  
Effects of rare earth coupling agent WOT on the properties of nano-calcium carbonate/SBR composite ..... *WANG Yue-qiong, CHEN Yu-kun et al.* (395)  
Study on the stiffness characteristics of diaphragm type air springs for commercial vehicles based on varying cord parameters ..... *HE Feng, CAI Yong-zhou et al.* (401)

### Material • Compounding

- Study on shape memory properties of TPI ..... *XU Fu-yong, BO Lin et al.* (406)  
Study on adhesion of silicone rubber to metal ..... *YE Lin-ming, HUANG Guang-su et al.* (411)  
Study on the process of in situ precipitated silica/NR composite ..... *TANG Ming-hui, LI Chao et al.* (415)  
Application of 0.25+6+12×0.225HT steel cord in carcass of TBR tire ..... *ZHANG Xun-min, ZENG Qing et al.* (419)

### Product • Design

- Surface modification of nature rubber catheter film via graft copolymerization ..... *SUN Qin, YU He-ping et al.* (421)  
Development of special cutting-edge type V-belt for agriculture machinery ..... *SHAO Hai-gen, QU Quan et al.* (427)

### Technology • Equipment

- Application of on-line corrective model based on sliding window of RPLS for quality control process of rubber mixing ..... *CHEN Ke-juan, LIU Lin-tao* (430)  
Control system of rubber seal production line based on field bus ..... *LU Jian-zhang, SHI Lu et al.* (435)

### Testing • Analysis

- Rapid image splicing method for the tire section-scanning system ..... *LIN Qi, MA Tie-jun* (438)

### Comprehensive and Special Review

- Preparation technology of high-performance ESBR ..... *ZHANG Hong-lin* (442)

**China Standard Serial Numbering:** ISSN 1000-890X  
CN 11-1812/TQ

**http://www.rubbertire.com.cn**

**E-mail:** rubbertire@263.net

**Published by:** Editorial Office of China Rubber Industry

**Printed by:** Langfang City Printing Factory

**General Distributor:** Beijing Distributing Bureau of Newspaper and Magazine

**Domestically Distributed by:** Local Post Offices

**Oversea Distributed by:** China International Book Trading Corporation (P.O. Box 399, Beijing 100044, China)

**Publishing Date:** every 25th

**Domestic Subscription Price:** 12 RMB Yuan

**Serial Parameters:** CN 11-1812/TQ \* 1953 \* m \* A4 \* 64 \* zh \* P \* ¥12.00 \* 6000 \* 28 \* 2010-07