

## Effect of Sylvatraxx 4401 Resin on Properties of Tread Compound of Steel Belted Radial Tire

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**Abstract:** The effect of Sylvatraxx 4401 resin on the properties of tread compound of steel belted radial tire was investigated. The results showed that, by adding Sylvatraxx 4401 resin in the tread compound, the dispersion of filler and the wear resistance of the vulcanizate were improved, and the compression temperature rise was decreased. As the addition level of Sylvatraxx 4401 resin increased, the dispersion of silica was improved, the  $t_{10}$  and  $t_{90}$  of the compound were extended,  $M_L$  and  $M_H$  decreased, the compression heat build-up of the vulcanizate was reduced, the wear resistance and wet skid resistance were improved, and the rolling resistance was reduced.

**Key words:** aromatic modified polyterprene resin; tread compound; silica; dispersion; wet skid resistance; rolling resistance

### 耐热耐候性阻燃橡胶绝缘电缆料

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由江苏亨通电力电缆有限公司申请的专利(公开号 CN 104761802A, 公开日期 2015-07-08)“耐热耐候性阻燃橡胶绝缘电缆料”, 涉及的绝缘电缆料配方为: 氯化聚乙烯橡胶 8~14, 乙烯-辛烯共聚物弹性体(辛烯单体的质量分数为0.2~0.3) 15~21, 气相法白炭黑 3~6, 氢氧化铝 15~19, 煅烧陶土 13~18, 钛白粉 0.5~1, 超细滑石粉 4~7, 氧化锌 1~2, 活性氧化镁 0.5~1, 800<sup>#</sup>石蜡基橡胶油 5~8, 微晶蜡 1~2, 环保稳定剂 0.3~0.6, 防老剂405 0.5~0.8, 硫化剂DCP 1~2, 促进剂TAC 1~1.5。该发明有利于无机粉体添加均匀, 连续硫化温度为190~210℃时绝缘电缆料仍能保持较高的拉断伸长率; 且增塑剂用量较小, 从而提高了绝缘电缆料的耐热和耐候性能。

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### 一种高力学性能减震橡胶材料及其制作方法

中图分类号: TQ336.4<sup>+</sup>2 文献标志码: D

由朱伟萍申请的专利(公开号 CN 104672517A, 公开日期 2015-06-03)“一种高力学性能减震橡胶材料及其制作方法”, 涉及的橡

胶材料配方为: 天然橡胶 30~55, 三元乙丙橡胶 10~20, 溴化丁基橡胶 10~20, 短纤维 3~5, 白炭黑 10~15, 纳米炭黑 10~15, 纳米碳酸钙 1~2, 氧化锌 3~5, 氧化镁 3~4, 硬脂酸 1~2, 石蜡 1~1.5, 凡士林 2~3, 防老剂 0.5~1, 偶联剂 0.5~1, 硅烷偶联剂Si-69 1~3, 硫黄 2~5, 促进剂 2~4。该发明提高了减震橡胶材料的力学强度、耐老化和耐油性, 延缓了霉菌腐蚀, 从而能够大大延长材料的使用寿命。采用该橡胶材料的制品损耗因子可达0.52~0.55, DIN磨耗量可达100~120 mm<sup>3</sup>, 具备高弹减震功能, 市场应用前景广阔。

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### 一种橡胶手套

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由天津鹏翔胶管有限公司申请的专利(公开号 CN 104738841A, 公开日期 2015-07-01)“一种橡胶手套”, 涉及的橡胶手套主体内部设有绒布层, 任意手指部位均设有若干防滑颗粒, 进口处设有拉绳收紧口, 拉绳收紧口上设有带拉绳扣的拉绳。该橡胶手套主体材料采用了丁腈橡胶, 耐磨性能好, 且结构简单, 使用简便, 同时具有良好的保暖效果。

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