

14.00—25.28工程机械轮胎进行机床耐久性试验,结果表明,正常生产轮胎和试验轮胎的累计行驶时间分别为159.6和161.3 h,可以看出试验轮胎的耐久性能优于正常生产轮胎。

2.5 成本分析

采用硫化剂DTDM-80的胎体胶价格为7.324 4元·kg⁻¹,采用硫化剂WK-7减量替代硫化剂DTDM-80的胎体胶价格为7.248 0元·kg⁻¹,胶料成本降低0.076 4元·kg⁻¹,年节约成本10.66万元。采用硫化剂WK-7替代硫化剂DTDM-80,不但节约了成本,而且减少了对环境的污染。

3 结论

(1)在工程机械轮胎胎体胶中以硫化剂WK-7减量替代硫化剂DTDM-80,胶料的门尼焦烧时间、 t_{10} 和 t_{90} 缩短,硫化速度加快,转矩稍低,工艺性能良好,抗硫化返原性改善,硫化胶的物理性能较好,成品轮胎的耐久性能提高。

(2)硫化剂WK-7在硫化过程中不会产生致癌的亚硝胺,以其减量替代硫化剂DTDM-80,不但节约了成本,而且达到了绿色、环保轮胎的生产要求。

第19届中国轮胎技术研讨会论文

Application of Curing Agent WK-7 in Carcass Ply Compound of Off-The-Road Tire

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Abstract: The application of curing agent WK-7 in the carcass ply compound of off-the-road tire was investigated. The results showed that, by using curing agent WK-7 instead of curing agent DTDM in the carcass ply compound, and adjusting the curing system, the Mooney scorch time, t_{10} and t_{90} were shortened, the processing property was better, and the anti-reversion property was improved. The physical properties and adhesion property of the vulcanizate were better. The endurance of the finished tire was improved. The compound cost and environmental pollution were reduced.

Key words: curing agent; off-the-road tire; carcass ply compound

一种磁悬浮列车轮胎胎面胶及其制备方法

中图分类号:TQ336.1;U463.341 文献标志码:D

由山东永泰集团有限公司申请的专利(公开号 CN 106188661A, 公开日期 2016-12-07)“一种磁悬浮列车轮胎胎面胶及其制备方法”,涉及的磁悬浮列车轮胎胎面胶配方为:天然橡胶 70, 乙炔基聚丁二烯橡胶 20, 再生胶 10, 炭黑N550 15~35, 葛粉 17~21, 聚乙烯醇 13~15, 蓖麻油 3~3.6, 矽美粉 0.7~1.1, 防老剂4020 1.2~1.4, 防老剂JOL 1.1~1.4, 秋兰姆 0.7~0.8, 硫黄 3~3.4。该胎面胶可兼顾轮胎在高温下的耐磨性、耐生热性、抗人字形割口性和抗崩花掉块性。

(本刊编辑部 马 晓)

国外简讯2则

△倍耐力轮胎公司由于采用不当胎体部件召回1 190条P Zero全天候轮胎。倍耐力称,问题由生产错误造成,轮胎在下胎侧表面可能出现龟裂。召回轮胎规格为275/40R19 101W, 生产于2016年2月29日至10月29日, ID号为WB Y2 U352 0916-4316。

MTD (www.moderntiredealer.com), 2016-12-05

△固特异轮胎橡胶公司的Eagle-360概念轮胎被时代(Time)杂志评为2016年度最佳发明。固特异Eagle-360是球型设计概念轮胎, 可以为自动驾驶轿车提供终级的操纵性、连接性和仿生性, 以提高安全性能。

MTD (www.moderntiredealer.com), 2016-11-28