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Study on Properties of Low Hysteresis Carbon Black for Green Tire

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Abstract: The structure and function of X series low hysteresis carbon black were studied and compared with traditional carbon black N234, and the effect of X series carbon black on rubber compound properties were investigated. The results showed that compared with carbon black N234, low hysteresis carbon black X2008 and X2009 had larger particle size, higher structure, lower coloring strength, wider aggregate size distribution and higher surface activity. Using low hysteresis carbon black X2008 and X2009 to replace carbon black N234 in the tread compound by equal weight, the comprehensive properties of the vulcanizates were improved, the heat generation was reduced, the loss factor ($\tan\delta$) at 0 °C was the same, and the $\tan\delta$ at 60 °C was reduced, indicating that the compound possessed similar wet skid resistance and reduced rolling resistance.

Key words: low hysteresis carbon black; green tire; tread compound; hysteresis performance; rolling resistance

玲珑轮胎研发基地落户济南

日前, 山东玲珑轮胎股份有限公司(简称玲珑轮胎)与济南市人民政府签署合作协议, 将玲珑轮胎研发科创基地落户济南。

玲珑轮胎研发科创基地落户济南后, 将充分利用济南市经济集聚、交通便利和人才集中优势, 发挥公司创新研发力和品牌影响力, 吸纳海内外技术和人才, 加快企业新旧动能转换, 实现高质量发展。

同时, 以面向全球的研发科创基地为依托, 玲珑轮胎将优化集聚高端科创资源, 激发市场主体创新活力, 推进相关产业链上下游研发, 促进区域大数据、智能制造等产业发展, 为济南加快建设工业强市赋能增效, 实现共享共赢。

玲珑轮胎在全球已设立7个研发机构, 突破多项核心和关键技术, 荣获多个国家级、省级科技奖项, 打破多个国际一线品牌产品垄断。

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一种低噪音的全路况轮胎

由安徽佳通乘用车子午线轮胎有限公司申请的专利(公布号 CN 110576707A, 公布日期 2019-12-17)“一种低噪音的全路况轮胎”, 涉及的全路况轮胎包括胎面, 胎面沿轮胎周向设置周向沟槽、沿轮胎宽度方向设置横向沟槽, 横向沟槽由内向外依次包括内侧肩部横向沟槽、内侧中央横向沟槽、中央横向沟槽、外侧中央横向沟槽以及外侧肩部横向沟槽。

本发明通过在轮胎胎面上设置多条周向沟槽和横向沟槽, 使轮胎胎面保持花纹块较大、沟槽较深等特点, 从而使轮胎具有良好的通过性能、排水性能和抓地性能; 同时, 通过对各横向沟槽在轮胎胎面上的整体布局进行合理安排、对各横向沟槽的形状及角度进行合理配置, 以减小轮胎在行驶过程中产生的噪声, 使其满足全路况轮胎噪声限值的规定。

(本刊编辑部 储 民)