

表1 成品轮胎的物理性能测试结果

项 目	7.50—16 6PR	6.00—12 6PR	企业标准
邵尔A型硬度/度	65	67	≥58
300%定伸应力/MPa	7.82	7.53	≥5.5
拉伸强度/MPa	19.52	19.28	≥18
拉断伸长率/%	530	545	≥450
粘合强度/(kN·m ⁻¹)			
胎面-缓冲层	10.8	10.6	≥8.0
胎体帘布层间	8.2	8.0	≥6.5
胎侧-胎体帘布层	13.7	13.4	≥6.5

5 结 语

通过对小型农业驱动轮胎结构设计进行优化,达到了提高质量、降低消耗的目的,成品轮胎的充气外缘尺寸和物理性能等均符合相应标准要求。

求。实践证明,这些改进措施是有成效的,为不断优化产品结构、提高轮胎设计水平打下了基础。

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Structure Design Optimization of Small Agricultural Drive Tire

CAO Yue, XU Yunhui, LI Peipei, SUN Peng, SONG Shuaishuai

(Xuzhou College of Industrial Technology, Xuzhou 221140, China)

Abstract: The structural design of small agricultural drive tire was optimized by taking 7.50—16 and 6.00—12 tires as examples. For 7.50—16 (6.00—12) tire, the following parameters were taken: overall diameter 802 (636) mm, cross-sectional width 193 (156) mm, width of running surface 177 (149) mm, maximum width position of cross-section (H_1/H_2) 0.722 (0.716), bead width at rim seat 136 (112) mm, pattern depth 23 (22) mm, pattern width 27 (24) mm, total number of pitches 18 (16), pattern arrangement angle 23°, front supporting angle of blocks 15°, rear supporting angle 25°, and 4 layers of 1400dtex/V₂ (1400dtex/1) nylon 66 dipped cord for carcass ply. It was confirmed by the finished tire test that, the inflated peripheral dimension, physical properties and cord performance met the requirements in the relative standards.

Key words: agricultural drive tire; structure design; tread pattern; optimization

一种耐腐蚀轮胎用橡胶复合材料及其制备方法

中图分类号:TQ336.1;U463.341 文献标志码:D

由安徽创奇乐智能游乐设备有限公司申请的专利(公开号 CN 105462021A, 公开日期 2016-04-06)“一种耐腐蚀轮胎用橡胶复合材料及其制备方法”,涉及的耐腐蚀轮胎用橡胶复合材料配方为:再生胶 60~80,氯丁橡胶 5~10,乙

烯-乙酸乙烯共聚物 3~5,碳化硼 20~30,石墨粉 10~15,松香 6~8,丙烯酸丁酯 2~4,过硫酸钾 0.15~0.25,聚酰胺蜡微粉 1~2,十二烷基硫酸钠 0.15~0.25,硬脂酸锌 1~2,二甲基硅油 1~2,复合助剂 5~10,硫黄 1~2。该轮胎用橡胶复合材料具有良好的力学性能和加工性能,用其生产的轮胎胎面耐腐蚀性能好,适用于具有一定腐蚀性的环境中。

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