

4 配方设计

为保证胎面胶的耐磨性能和抗崩花掉块性能,胎面冠部胶采用我公司港口轮胎专用配方,其他部位配方采用我公司普通轮胎配方。

5 成品性能

5.1 外缘尺寸

在标准充气压力925 kPa下,安装在标准轮胎上的14.00—24 28PR成品轮胎 D' 和 B' 分别为1407.3和380.5 mm,符合国家标准要求。

5.2 物理性能

成品轮胎物理性能如表1所示。可以看出,成品轮胎各项物理性能均达到相应标准要求。

6 结语

14.00—24 28PR普通块状花纹工程机械斜交

表1 成品轮胎物理性能

项 目	实测值	企业内控标准
邵尔A型硬度/度	68	≥55
300%定伸应力/MPa	11.4	≥5.5
拉伸强度/MPa	21.5	≥17.0
拉断伸长率/%	505	≥450
阿克隆磨耗量/cm ³	0.233	≤0.310
粘合强度/(kN·m ⁻¹)		
胎面-缓冲层	14.8	≥8.0
缓冲层间	13.0	≥8.0
缓冲层-胎体	14.4	≥6.0
胎体帘布层间	8.0	≥6.0
胎侧-胎体	12.9	≥6.0

轮胎试制成功,成品轮胎外观质量优良,充气外缘尺寸符合国家标准要求;物理性能满足企业内控标准,批量生产后投入港口轮胎市场,受到用户的一致好评。该轮胎产品很好地满足了市场和用户的需求,为企业创造了良好的经济效益和社会效益。

收稿日期:2018-11-16

Design on 14.00—24 28PR Off-The-Road Tire for Port Stacking Machine

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Abstract: The design on 14.00—24 28PR off-the-road tire for port stacking machine was described. In the structure design, the following parameters were taken: overall diameter 1410 mm, cross-sectional width 345 mm, width of running surface 342 mm, arc height of running surface 21 mm, bead diameter at rim seat 615 mm, bead width at rim seat 254 mm, maximum width position of cross-section (H_1/H_2) 0.794 6, deepened block pattern with transverse pattern grooves, and number of pattern pitches 24. In the construction design, the following processes were taken: winding processed tread, three steel wires for bead, 16 layers of high strength 1870dtex/2 nylon 66 cord for carcass, 4 layers of 1400 dtex/2V₃ nylon 66 cord for breaker ply, using bladder turn up building machine to build tires, and 190.5 cm curing press to cure tires. It was confirmed by the finished tire test that, the inflated peripheral dimension and physical properties met the requirements of national standards and relevant design.

Key words: port stacking machine; off-the-road tire; structure design; construction design

丁苯橡胶两项国家标准发布

日前,国家市场监督管理总局(国家标准化管理委员会)批准并公布了两项与丁苯橡胶相关的国家标准:GB/T 8655—2019《苯乙烯-丁二烯橡胶(SBR) 1500、1502》(代替GB/T 8655—

2006和GB/T 12824—2002), GB/T 37388—2019《溶液聚合型苯乙烯-丁二烯橡胶(SSBR)》。两项国家标准将于2020年2月1日起正式实施。

(本刊编辑部)