

Analysis of Factors Affecting Temperature Change of Truck and Bus Radial Tire

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Abstract: Using infrared thermometer and probe thermocouple, the surface and internal temperature of five different truck and bus radial tires were measured, and the relationship between tire temperature and multi factors, such as driving speed, load, inflation pressure and ambient temperature, was established by using multiple linear regression method. The results showed that, the temperature of tire increased slightly with the increase of driving speed, load was an important factor affecting the temperature change of tire, over-low inflation pressure would cause excessive heat build-up of tire, and the ability of heat transfer from the tire surface to the environment decreased when the ambient temperature increased to a certain extent, which could increase the internal temperature of tire.

Key words: truck and bus radial tire; infrared thermometer; multiple linear regression; thermocouple; temperature; load; speed; inflation pressure

贵州轮胎推出LET-Ⅱ代系列产品

2020年,高速公路货运车辆平均超限超载率不得超过0.5%,且高速公路对货车实行统一按车(轴)型收费。运输条件的改善和规范以及收费标准的调整,将会加速3 000多万名卡车司机对低滚动阻力、低油耗、高行驶里程、更安全的绿色节油轮胎的需求。

随着国内运输环境的改变和卡客车的不断发展,贵州轮胎股份有限公司积极组织绿色节油轮胎的技术专家研发团队,先后推广上市了SPEED第1代和第2代系列产品、LET-Ⅰ代系列产品、GHA产品,并获得广大司机的高度赞赏和认可。现推广上市的LET-Ⅱ代系列产品是在LET-Ⅰ代产品基础上,采用全新技术配方设计,具有低滚动阻力、低油耗、高行驶里程、低生热等优点,全面满足冷链运输、长途货运物流等对运输时效有较高要求的卡客车辆使用,为广大的卡客车用户提供低油耗、高行驶里程、更安全的轮胎解决方案。

轮胎因滚动阻力而造成的燃油消耗量约占整个汽车燃油消耗量的20%,卡客车这一比例则高达1/3。LET-Ⅱ代系列产品的滚动阻力系数已达到GHA产品的水平,与市场同规格、同花纹产品相

比,滚动阻力系数降低了15.17%~21.69%,可节油3.0%~4.3%,单台车辆年行驶20万km,可节省油费1.25万~1.8万元。

(贵州轮胎股份有限公司 丁朝俊)

伊士曼荣膺轮胎年度供应商大奖

日前,伊士曼宣布其在德国举行的2020年轮胎技术展览会创新与卓越奖颁奖典礼上荣获年度供应商大奖。

国际轮胎技术创新与卓越奖由30多位顶尖专业人士组成的评审团负责评选,旨在表彰轮胎行业中的杰出成就和研发成果。伊士曼是一家全球性的特种材料公司。2019年,伊士曼投资超过200万美元,在上海启用全新轮胎技术实验室,为全亚洲的客户提供快捷高效的测试服务。近年来,伊士曼取得了不少突破性创新成果,如新型不溶性硫黄Crystex Cure Pro, Impera高性能树脂产品组合的规模也扩大了3倍。此外,伊士曼也通过各种新的应用开发技术帮助客户提高配料操作效率与橡胶检测分析的准确性,并为轮胎工厂提供轮胎加工过程热历史分析服务。

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