

可知添加DC-01对降低胶料的动态生热有显著效果。

(5)加入DC-01后,硫化胶的屈挠龟裂等级明显下降,DC-01适用于轮胎基部胶,可以提升轮胎前期的耐屈挠疲劳性能。

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Application of Monohydrazide in Tread Compound of High-Performance Tire

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Abstract: Monohydrazide (DC-01) was applied to the tread compound with natural rubber/butadiene rubber blend, and the effect of DC-01 on the properties of the tread compound was studied. The results showed that when the amount of DC-01 was less than 1 phr, the scorch time of the compound was slightly shortened, the vulcanization speed was slightly slowed down, the curing reversion time was prolonged, the physical properties were improved, $\tan\delta$ at 60 °C decreased, and the flexural cracking grade of the compound decreased significantly, which confirmed that the addition of DC-01 had a significant effect on reducing the dynamic heat generation and improving the flex fatigue resistance of the compound.

Key words: monohydrazide; tread compound; crosslinking bond; dynamic mechanical property; flex fatigue resistance

米其林推出低滚动阻力卡车轮胎新品

米其林(北美)公司开发出一款宽基驱动轮胎新品X One Line Energy D2。该产品是米其林X One轮胎系列的重要补充。米其林宣称其是迄今为止滚动阻力最低的卡车轮胎。

X One Line Energy D2轮胎于2022年5月在北美市场推出,目前只有一种规格,即445/50R22.5 L,其适用于长途运输车队、货车和冷藏卡车装配使用,并且可取代X One Line Energy D轮胎。

X One Line Energy D2轮胎的胎面花纹深度较小;在使用寿命的前半段是定向轮胎,可提高对不规则磨损的抵抗力,从而延长胎面寿命;得益于米其林的Regenion技术,X One Line Energy D2轮胎的胎面花纹会随着磨损而变化;矩形胎圈设计可最大限度地减少磨损,延长轮胎使用寿命,同时

实现轮胎最大的可翻新性;紧凑设计可减小胎面能量消耗以提高轮胎燃油效率;滚动阻力比X One Line Energy D轮胎低12%,与其他品牌同类轮胎相比每年可节约2 317美元燃料成本。

X One Line Energy D2轮胎的低滚动阻力水平超过了美国环保署温室气体第2阶段(GHG2)和加州空气资源委员会(CARB)对减少碳排放的要求。

凭借米其林Regenion技术,X One Line Energy D2轮胎的胎面设计不断改进,使轮胎在北美所有天气条件下使用都能保持性能稳定。另外,使用4条X One Line Energy D2宽基单胎而不是传统设计的8条驱动轮胎,可使轮胎和车轮的总质量减小196 kg,这使卡车可以承载更大的有效载荷。

(朱永康)