

- the Composition[P]. USA;USP 6 207 757,2001-03-27.
- [19] Continental AG. Rubber Composition, Method of Formulating and Blending the Same and Article and Tires Made Therefrom. [P]. USA;USP 6 242 534,2001-06-05.
- [20] JSR Corporation. Crosslinked Rubber Particles and Rubber Compositions[P]. USA;USP 6 747 095,2004-06-08.
- [21] JSR Corporation. Rubber Composition [P]. USA; USP 6 699 935,2004-03-02.
- [22] Qiao J L,Wei G S,Zhang X H,et al. Fully Vulcanized Powder Rubber Having a Controllable Particle Size. Preparation and Use[P]. USA;USP 6 423 760B,2000-10-30.
- [23] Zhang S J,Qiao J L. Preparation and Application of New Nano-rubber Materials[J]. New Chemical Materials,2005,3 (2):46-51.
- [24] Toyo Rubber Industry Co.,Ltd. Rubber Compositions with Processability for Pneumatic Tires with Balance in Low Fuel Cost and High Wet-grip Ability[P]. JPN:JP 2006/213803, 2006-08-17.
- [25] Sumitomo Rubber Industry Co.,Ltd. Rubber Compositions for Tires and the Pneumatic Tires with Balanced Properties Therefrom[P]. JPN:JP 2006/89552,2006-04-06.

收稿日期:2014-12-12

Influence of Ultra Fine Powdered Rubber on the Properties of Different Rubber

ZHOU Zhi-feng¹,WANG Qing-cai¹,LI Hua-ting¹,QIAO Jin-liang²,ZHANG Xiao-hong²,GAO Jian-ming²

(1. Beijing Research & Design Institute of Rubber Industry, Beijing 100143, China; 2. SINOPEC Beijing Research Institute of Chemical Industry, Beijing 100013, China)

Abstract: The influence of addition level of ultra fine powdered nitrile-butadiene rubber (UFP-NBR) on the properties of SBR1500, SBR1712 and BR9000 was investigated. The results showed that, as the addition level of UFP-NBR increased, the wear resistance of SBR1500 compound was improved at first and then decreased, the rolling resistance decreased at first and then increased, the wet skid resistance increased, and the optimum addition level of UFP-NBR was 3~5 phr. As the addition level of UFP-NBR increased, the wear resistance and wet skid resistance of SBR1712 compound were improved, and the rolling resistance decreased. As the addition level of UFP-NBR increased, the wear resistance of BR9000 compound decreased, the rolling resistance decreased, and the wet skid resistance was improved.

Key words: UFPR; UFP-NBR; SBR; BR; rolling resistance; wear resistance; wet skid resistance

两款邓禄普 Hercules 轮胎获 SmartWay 认证

中图分类号: TQ336.1; U463.341 文献标志码: D

美国《现代轮胎经销商》(www.moderntire-dealer.com)2015年3月2日报道:

最近,两款 Hercules 轮胎满足美国环境保护署低滚动阻力要求,获得 SmartWay 认证。Hercules H-704 EcoFT 是一款长途闭合胎肩深花纹驱动轮胎, Hercules H-902 EcoFT 是一款高速全轮位轮胎。

“我们的目标一直是为客户提高销售和盈利机会,” Hercules 载重子午线轮胎产品及采购主管 Pat Tripp 称,“拥有越来越多的通过 SmartWay 认证轮胎产品是我们能做的关键步骤,因此

我们很高兴让 Hercules H-704 EcoFT 和 Hercules H-902 EcoFT 轮胎加入 SmartWay 项目。”

Hercules H-704 EcoFT 轮胎在 2014 年拉斯维加斯专用设备市场联盟(SEMA)上推出,该款轮胎现有 14 和 16 层级规格,花纹深 23.8 mm (30/32 英寸),坚硬的胎肩可抵抗不规则磨损。Hercules H-902 EcoFT 全轮位轮胎具有 5 条条形花纹设计,现有 14 和 16 层级规格。

Hercules H-704 EcoFT 和 Hercules H-902 EcoFT 轮胎采用独有的 EcoFT 胶料生产,可降低滚动阻力。通过 SmartWay 认证或待认证的 Hercules 品牌的中型载重轮胎均有 EcoFT 标记。

(肖大玲摘译 吴淑华校)