

Design of 415/45R22.5 20PR Wide Base Tubeless Truck and Bus Radial Tire

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Abstract: The design of 415/45R22.5 20PR wide base tubeless truck and bus radial tire was described. In the structure design, the following parameters were taken: overall diameter 948 mm, cross-sectional width 420 mm, width of running surface 352 mm, height of running surface 14 mm, bead width at rim seat 368 mm, maximum width position of cross-section (H_1/H_2) 1.046, and design of 2 longitudinal main groove tread pattern. In the construction design, the tread was coextruded, 3+8×0.33HT steel cord was applied for 1[#], 2[#], and 3[#] belt ply, 3×4×0.22HE steel cord was used for 4[#] belt ply, 3+9+15×0.175+0.15NT steel cord was used for carcass ply, and $\Phi 1.65$ mm tempered high strength tin coated wire was applied in the tire bead. The tire was built using single stage two-drum building machine and then cured in press mold. It was confirmed by the tests of the finished tire that, the peripheral dimension, strength performance, endurance performance and speed performance met the requirements of correlative design and standards, and the distribution of contact pressure was good.

Key words: tubeless truck and bus radial tire; wide base tire; low profile; structure design; construction design

米其林 Premier A/S 轮胎当选 最佳旅行全天候轮胎

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美国《现代轮胎经销商》(www.moderntire-dealer.com)2014年10月14日报道:

根据 Tire Rack 调查显示, 米其林 Premier A/S 轮胎当选新的最佳旅行全天候轮胎(见图1)。



图1 米其林 Premier A/S 轮胎

米其林 Premier A/S 轮胎的平均得分为9.2, 略微领先倍耐力 Cinturato P7 全天候 Plus 轮胎(平均得分为9.1), 采用EcoPlus技术的大陆

PureContact 轮胎位列第3, 平均得分为8.7。

Tire Rack 表示, 调查结果显示米其林 Premier A/S 轮胎是“最佳”的旅行全天候轮胎, 其湿路面及冬季/雪地性能得分领先, 驾驶者对其全天候牵引性能相当满意。

为了体验 Premier A/S 轮胎的 EverGrip 技术, Tire Rack 于2013年冬天用两条新轮胎进行测试, 剩余花纹深度为4 mm(5/32 英寸)时表示轮胎磨旧。磨旧的 Premier A/S 轮胎的性能超过其竞争对手新轮胎的性能。

除了干路面性能外, Premier A/S 轮胎的其他所有性能均优于位列第2的倍耐力 Cinturato P7 全天候 Plus 轮胎。

在轻型载重/SUV 无镶钉冰雪轮胎方面, Tire Rack 重新测试了普利司通 Blizzak DM-V1 轮胎, 结果表明, Blizzak DM-V1 轮胎的平均得分为8.8, 仍然领先于普利司通 Blizzak W965 轮胎和米其林 Latitude X-Ice Xi2 轮胎(各自得分均为8.4)。

(赵敏摘译 吴秀兰校)