

# Design of 445/45R19.5 Wide Base Tubeless Truck and Bus Radial Tire

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**Abstract:** The design of 445/45R19.5 wide base tubeless truck and bus radial tire was described. In the structure design, the following parameters were taken: overall diameter 896.5 mm, cross-sectional width 448 mm, width of running surface 400 mm, arc height of running surface 15.5 mm, bead diameter at rim seat 493.5 mm, bead width at rim seat 394 mm, maximum width position of cross-section( $H_1/H_2$ ) 0.87, tread patterns mainly composed of six longitudinal grooves, block/total ratio 79.75%, pattern depth 13 mm, and pattern circular pitch 32. In the construction design, the following processes were taken: three-formula and four-piece tread structure,  $3+8\times 0.33$  HT steel cord for 2<sup>#</sup> and 3<sup>#</sup> belt,  $3\times 0.20+6\times 0.35$  HT steel cord for 1<sup>#</sup> and 4<sup>#</sup> belt,  $1+6+12\times 225$  HT steel cord for carcass ply, and using two-drum building machine to build tires and hot press to cure tires. It was confirmed by the test of finished tires that, the inflated peripheral dimension met the requirements in the design, and the strength performance, endurance performance, speed performance and rolling resistance met the requirements of corresponding standards.

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

## 韩泰公路越野两用智能全钢载重子午线轮胎

中图分类号: U463.341 文献标志码: D

美国《现代轮胎经销商》(www.moderntire-dealer.com)2013年8月14日报道:

韩泰 AM15 智能轮胎具备可排出碎石的胎面花纹以抵御碎石刺穿,如图 1 所示。



图 1 韩泰 AM15 智能轮胎

韩泰轮胎美国公司宣布为建筑工地推出全新 AM15 智能公路/越野宽基/全轮位全钢载重子午

线轮胎, AM15 智能轮胎有 385/65R22.5 和 425/65R22.5 两种规格可供选择。

AM15 智能轮胎旨在为车队客户提供具有高强度、高牵引力和长寿命特性的轮胎,胎面花纹设计可提高牵引性能和燃油效率。

韩泰称,优化的胎体结构可以提供良好的行驶性能和较强的操纵性能,改进胎圈轮廓可以提供卓越的可翻新性能和稳定的接地印痕以减少不规则磨损。

“随着经济回弹, AM15 智能轮胎在适宜的时间与车队见面”,韩泰轮胎美国公司商业轮胎销售总监 Brian Sheehy 说。

“随着建筑行业活力的持续增加,车队对公路/越野宽基轮胎的需求提高。韩泰将为这些客户提供正确的产品,以保证他们可以借此完成工作”。

韩泰目前提供的 20 种载重轮胎覆盖所有卡车和客车轮胎应用领域,并在商业轮胎经销点可以买到。

(孙斯文摘译 田军涛校)