

Design on 16.00R25 All-steel Off-The-Road Radial Tire for Straddle Carrier

PEI Quanhua, WANG Zhiping, HE Yue, XIE Hongjie

(Aeolus Tyre Co., Ltd., Jiaozuo 454000, China)

Abstract: The design on 16.00R25 all-steel off-the-road radial tire for straddle carrier was described. In the structure design, the following parameters were taken: overall diameter 1 502 mm, cross-sectional width 422 mm, width of running surface 380 mm, arc height of running surface 21 mm, bead diameter at rim seat 630 mm, bead width at rim seat 298 mm, maximum width position of cross-section (H_1/H_2) 0.8, using rib pattern design, pattern depth 50 mm, block/total ratio 86.3%, and the number of pattern pitches 32. In the construction design, the following processes were taken: cold-feeding extrusion and winding for tread, $7 \times 7 \times 0.22 + 0.15$ HT steel cord for carcass ply, $3 + 9 + 15 \times 0.175 + 0.15$ steel cord for 1[#] belt, $3 + 9 + 15 \times 0.22 + 0.15$ steel cord for 2[#] and 3[#] belt, $3 \times 7 \times 0.20$ HE steel cord for 4[#] belt, using one stage double-drum builder to build tires and B type press to cure tires. It was confirmed by the test of the finished tire that the inflated peripheral dimension, physical property and endurance met the requirements of relative designs and national standards.

Key words: all-steel off-the-road radial tire; structure design; construction design

Mickey Thompson推出Baja Pro X

越野轮胎

美国《现代轮胎经销商》(www.moderntiredealer.com) 2019年1月30日报道:

Mickey Thompson轮胎与车轮公司的最新轮胎瞄准了越野爱好者。Baja Pro X轮胎(见图1)不是为铺设路面设计的,而可能是该公司有史以来最具越野性能的轮胎。



图1 Baja Pro X轮胎

该越野轮胎的上市规格为 $43 \times 14.50 - 17\text{LT}$,未来将推出其他规格。Baja Pro X轮胎的特征包括:

- 采用粘性胶料,坚硬路面上具有强大抓着力;

- 采用Pro-Tech结构,保持耐久性能的同时增加了额外的屈挠性能;

- 双解耦花纹沟槽,在不规则表面提供额外的屈挠性能;

- 胎面咬合夹板能赋予胎面额外的咬合边缘;

- 锯齿形胎面区域具有剪切功能,以便在保持横向稳定性和地面抓着性能的同时,提供额外的泥浆和松散表面上的牵引性能;

- 泥浆勺提供清洁能力;

- 胎侧咬合边和带角度胎肩提供牵引力和抓着力;

- 对称的定向胎面花纹赋予轮胎牵引性能和清洁能力。

该公司的高级产品开发经理 Jason Moulton说:“我们设计的Baja Pro X轮胎适于极端的户外用途:滚石、泥泞、深泥、岩石、雪、沙、泥地和砾石。在Baja Pro X轮胎被评为2018年SEMA新产品展示会轮胎类别的亚军并获得SEMA全球媒体奖后,我们比以往任何时候都更激动地将Baja Pro X轮胎推介给我们的客户,在小径或泥沼上对性能进行检验。”

(赵敏摘译 吴秀兰校)