

Design on 14.9 – 30 10PR Agriculture Tractor Drive Tire

XU Qing-bin, LIU Xiang-ke, SI Fei-fei

(Aeolus Tire Co., Ltd, Jiaozuo 454003, China)

Abstract: The design on 14.9 – 30 10PR agriculture tractor drive tire was described. In structure design, the following parameters were taken: overall diameter 1 390 mm, cross-sectional width 358 mm, width of running surface 335 mm, arc height of running surface 30 mm, bead diameter at rim seat 765 mm, bead width at rim seat 320 mm, maximum width position of cross-sectional (H_1/H_2) 0.619, chevron tread pattern, pattern depth 38 mm, block/total ratio 27.5%, and number of pattern pitch 21. In construction design, the following processes were taken: two-formula and four-piece tread, 4 layers of 1400dtex/2V₁ nolyn 6 dipped cord for carcass ply, $\Phi 0.96$ mm 19[#] tempered wire for bead, and using semi-drum building machine to build tires and curing pot to cure tires. It was confirmed by the finished tire test that, the inflated peripheral dimension and physical properties reached the requirements of design and corresponding standards.

Key words: agriculture tire; drive tire; structure design; construction design

米其林更高负荷XDR250轮胎

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美国《现代轮胎经销商》(www.moderntiredealer.com)2015年7月2日报道:

米其林北美公司工程机械轮胎系列新增XDR250高负荷轮胎(见图1)。与前一代相比,其牵引力至少提高24%,负荷能力提高11%。



图1 米其林XDR250轮胎

该轮胎适合于装配Caterpillar 793F和Komatsu 830E AC上,可以提高单位时间材料运输量。

米其林表示,XDR250轮胎的规格为50/80R57,与米其林XDR2相比,其具有以下技术

优势:更大的负荷能力,更低的运行温度,更快的行驶速度,更有利于提高生产率水平,更长的使用寿命。

“刚性自倾式卡车是露天开采业务的命脉,”米其林北美工程机械轮胎营销总监Jamey Fish说,“工程机械轮胎需要提供最大的生产力、安全性和耐用性,以消除停机时间。该轮胎可在67 t额定负荷能力下以更快的速度工作更长周期。米其林提供的解决方案可以使矿山企业通过降低运营成本提高盈利能力。”

该轮胎具有新的胎面花纹,花纹沟将胎面分割成更小的花纹块,可以优化空气流动和散热。轮胎运行冠部温度降低8.3 °C(17 °F),允许其以相同速度运载更大的负荷或提高平均运行速度。

为了配合新一代工程机械不断增长的生产力,米其林XDR250轮胎充气量提高了9.2%。该轮胎与MEMS(米其林工程机械管理系统),即测量轮胎压力和温度的集成传感器系统兼容。实时警报发送到矿山的运营控制室,通知轮胎过热或充气过高或不足,以便立即采取相应措施。

(吴淑华摘译 李静萍校)