

of rubberlike materials was described by Yeoh model due to nonlinear physical characteristics, large geometric deformation and nonlinear contact boundary of the material. Moreover, the steel cord was modeled by embedded surface element with Rebar. Then the reliability of the model was verified by experiments. The results showed that, the vertical stiffness of the tire increased with increase of deflection, and finally closed to a constant value. As for pressure distribution in the contact patch, the larger pressure was located at the edge of the pattern blocks. The footprint shape and area predicted by numerical simulation were in good agreement with experiment results. In the ground-contact area, the circumferential rebar force of carcass was lower in the middle of the footprint compared with that of the outer contact patch, and then the rebar force of carcass gradually decreased away from the ground-contact area.

Key words: TBR tire; complex tread pattern; finite element simulation; contact pressure distribution

BKT推出ATV/UTV轮胎

中图分类号:TQ336.1;F27 文献标志码:D

美国《现代轮胎经销商》(www.moderntiredealer.com)2015年11月6日报道:

BKT轮胎公司在2015年拉斯维加斯全球轮胎展上推出全地形和实用越野车轮胎Bogmax。该展览是美国拉斯维加斯改装车零配件(SEMA)展览会的一部分。

该公司称,新Bogmax轮胎(见图1)专为泥地竞速设计,具有如下特点:

- (1)特殊胎面胶配方可抵抗切割;
- (2)坚固胎体有助于抵御擦碰和刺扎;
- (3)“胎侧护胶”延伸至胎圈;
- (4)具备自洁功能。



图1 新Bogmax轮胎

工程机械轮胎副总裁助理Michael Aguon称,该轮胎拥有最适于深泥潭的胎面花纹深度,它甚至将在“废深水”有所表现。

该Bogmax轮胎目前有一款6层级规格——AT32×10-14,轮辋直径为203.2 mm(8英寸)。

(孙斯文摘译 吴秀兰校)

一种供饮用水系统用阀门密封橡胶及其制备方法

中图分类号:TQ336.4⁺2;TQ333.4 文献标志码:D

由芜湖市金贸流体科技股份有限公司申请的专利(公开号 CN 104610661A,公开日期 2014-05-13)“一种供饮用水系统用阀门密封橡胶及其制备方法”,涉及的密封橡胶配方为:三元乙丙橡胶6850 100,炭黑N550 120,氧化锌 5,硬脂酸 1.5,500#石蜡油 20,硫黄 1,促进剂TMTD 0.2,促进剂ACROMEG3N-75GE 3。该发明降低了生产成本。产品环保无污染,无毒害,使用寿命长。

(本刊编辑部 赵 敏)

一种基于微孔高分子膜的膜萃取装置和膜萃取方法

中图分类号:TQ207⁺.4;TQ336.9 文献标志码:D

由大连海事大学申请的专利(公开号 CN 103768950A,公开日期 2014-05-07)“一种基于微孔高分子膜的膜萃取装置和膜萃取方法”,涉及的膜萃取装置包括膜组件、瓶体、橡胶塞和瓶盖。膜组件包括支架、膜袋和套环,膜袋由微孔高分子膜制成;膜组件和瓶体通过橡胶塞和瓶盖密封。该膜萃取装置结构简单,制作成本低,携带方便,能有效实现对水中有机的萃取,进而实现对水中有机的分析测定。

(本刊编辑部 赵 敏)