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Application of Silica from Rice Husk Ash in Tread Compound of Steel-belted Radial Tire

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Abstract: The application of silica from rice husk ash in the tread compound of steel-belted radial tire (test formula) was experimentally investigated and compared with the commonly formulated compound filled with traditional highly dispersible silica (normal formula) made from quartz sand source. The results showed that, when the rice husk-derived silica was applied to replace highly dispersible silica HD 175MP from quartz sand source in the tread compound of steel-belted radial tire, the physical properties, dynamic viscoelastic properties and abrasive properties of the compound reached the same level as those of the normally formulated compound, and the durability, high-speed performance, wet-skid resistance and rolling resistance of the test tire were in accordance with the design requirements.

Key words: silica; rice husk; steel-belted radial tire; tread compound

Carlstar的ITP品牌新增Terra Hook轮胎

美国《现代轮胎经销商》(www.moderntiredealer.com) 2019年7月22日报道:

Carlstar集团公司发布了ITP品牌的Terra Hook高性能全地形轮胎(见图1),适用于多用途全地形和并排(S×S)车辆。这款8层级的轮胎共有9个规格,均在美国制造。

该公司动力运动产品经理Todd Hinson说:“我

们很高兴能够推出一款全面规格产品,这是ITP迄今为止提供的最通用的‘全地形’产品之一。这9个主要规格允许在各种动力车辆上使用,包括大多数S×S和多用途全地形车辆应用领域。”

ITP销售总监Rhett Turpin说:“Terra Hook轮胎有9个规格,适用于各种车辆。我们对这款子午线轮胎的性能非常有信心,因此立即发布所有9个规格轮胎,从而使更多的车手有机会体验Terra Hook轮胎所提供的一切性能。”

Terra Hook轮胎采用非定向胎面设计,具有交替的肩部元素和多角度花纹块。Carlstar公司称,Terra Hook轮胎的非定向胎面设计提供了在任何方向的抓地力,增强了前进和后退运动能力,给越野爱好者提供了最高的牵引力以及在岩石和其他道路条件下的子午线轮胎性能。Terra Hook轮胎的轮辋直径为660.4~812.8 mm(26~32英寸)。

ITP品牌产品在田纳西州克林顿和杰克逊开发,在全球超过25个国家经销。

(赵敏摘译 吴秀兰校)



图1 Terra Hook高性能全地形轮胎