

in a typical silica tread compound formula was studied. The results showed that, despite the high temperature cracking of accelerator DPG could produce aniline, which was harmful to human health and the environment, its comprehensive performance advantage in the formula of silica tread compound was obvious. When the accelerator DPT was used to replace accelerator DPG, the vulcanization system should be properly adjusted, and its effects on the Mooney viscosity, tensile strength and elongation at break of the compound should be paid attention to. However, it was difficult for the accelerator TATD to simply replace accelerator DPG in the compound. It was found that after the replacement, the processing properties of the compound and the physical properties of the vulcanizate had undergone obvious changes. In the formula of the silica tread compound, the accelerator DPG could not be replaced by simple accelerator change, and other components of the formula needed to be optimized and adjusted.

**Key words:** accelerator; silica tread compound; substitution; Payne effect; dynamic mechanical property; environment protection

### 多个橡胶行业产品入选2021年山东 创新工业产品目录

日前,山东省工业和信息化厅公布了《2021年山东创新工业产品目录》,共有179个产品入选目录。

入选的10个橡胶行业产品如下:益凯新材料有限公司的高性能绿色轮胎用橡胶新材料EVEC胶、赛轮集团股份有限公司的超耐磨越野子午线轮胎、青岛双星轮胎工业有限公司的双星全天候四季轮胎和高性能城市公交车胎、青岛天邦线业有限公司的芳纶浸胶线绳、山东东岳有机硅材料股份有限公司的室温硫化甲基硅橡胶、山东玲珑轮胎股份有限公司的欧洲新一代低滚阻低噪声轻卡轮胎和应对“蓝天保卫战”新一代绿色低滚阻轮胎、山东玲珑机电有限公司的LCY(E)1520 II智能二次法子午线轮胎成型机、浦林成山(山东)轮胎有限公司的低滚阻绿色载重子午线轮胎。

工业和信息化厅要求各有关企业进一步提升研发新技术、新产品、新工艺水平,增强山东创新工业产品的美誉度和市场竞争力,推动山东省制造业高质量发展。

(本刊编辑部)

### 贵州轮胎推出3Prosuper系列超高端轮胎

日前,贵州轮胎股份有限公司(简称贵州轮胎)3Prosuper系列超高端轮胎上市。

3Prosuper即三超系列轮胎具有超安全、超耐磨、超节油的特点。该系列轮胎采用了贵州轮胎的“IBW”核心安全技术,采用带状钢丝无限带束层缠绕工艺设计,冠部形成高密度无接头钢丝帘布矩阵,打造出超强的带束层稳固结构;胎冠强度大幅增强,提供更优异的操控性能,行驶平稳抗冲击,有效降低爆胎风险,全新优化的花纹沟槽设计,确保轮胎在各种湿滑路面上的抓地性能;超强胎体耐久设计结合超耐磨胎面配方,使轮胎具备低生热、超耐磨、长寿命的特性,更适合长距离运输;超强刚度分布设计结合采用全新低滚动阻力配方,使轮胎具备更加稳定、均匀的接地压力分布,胎面采用新型硅烷配方形成更稳定的橡胶空间网状结构,在提升胎面磨损性能的同时,大幅降低轮胎行驶滚动阻力,实现超节油目标。

新上市的3Prosuper系列轮胎规格包括295/80R22.5 GL278A, 425/65R22.5 GL278A, 11R22.5 GL168A, 12R22.5 GL168A。

(贵州轮胎股份有限公司)

## 声 明

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