

Ozone Aging Protection of Tire Sidewall by Microcrystalline Wax HG75

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Abstract: The protective effect of a new modified microcrystalline wax HG75 on the ozone aging of rubber compounds was experimentally studied by replacing the traditional microcrystalline wax H7075 in the production formula of the sidewall compound of steel-belted radial tire. The results showed that the relative molecular weight of n-alkanes and isoalkanes of microcrystalline wax HG75 were higher than that of microcrystalline wax H7075, which was helpful to reduce the probability of compound blooming. In the experiment, the microcrystalline wax H7075 was replaced by 1.5 phr microcrystalline wax HG75 in the sidewall compound of steel-belted radial tire, the vulcanization characteristics and physical properties of the compound were at the same level, the protective effects of microcrystalline wax HG75 and H7075 on ozone aging of the compound were the equivalent, and the wax film thickness of the compound with microcrystalline HG75 was smaller and the uniformity was better, which could ensure the appearance quality of the tire.

Key words: microcrystalline wax HG75; steel-belted radial tire; sidewall; ozone resistance; protection

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日前,由新华社民族品牌工程办公室、新华网、黑龙江省商务厅、哈尔滨市人民政府联合主办的“2021中国企业家太阳岛年会”在哈尔滨隆重召开,这是新华网与黑龙江省、哈尔滨市共同打造的共享、共建、共有的交流平台。数百位国内500强企业领导、经济学家、院士及外国商协会代表等嘉宾参加会议。会议围绕“‘十四五’:中国经济的变局与新局”展开对话交流,深入分享行业前沿理念和先进经验,探讨中国企业如何融入双循环新发展格局,促进创新链和产业链深度融合,推动中国经济迈向更高层次、实现更高质量发展。

赛轮集团股份有限公司(简称赛轮集团)副总裁袁嵩受邀参加年会,并在“数智未来——科技创新与产业变革”峰会中分享赛轮在“橡链云”工业互联网平台应用方面的探索与实践,展示了赛轮集团作为中国橡胶轮胎行业头部企业在新时代背景下的数字化转型之路。

袁嵩表示,赛轮集团的“数字基因”由来已久,成立之初就提出“控制到位,管理到位”的管理理

念,历经近20年的发展与更迭,赛轮集团在数字化转型发展中始终先行先试,大胆探索,在轮胎行业信息技术领域取得了丰硕成果,荣获国家首批“智能制造试点示范企业”,入选工信部“工业互联网试点示范企业”案例,荣获工信部“大数据产业发展试点示范企业”,并于2020年推出行业内首个落地投入应用的工业互联网平台——“橡链云”。目前“橡链云”平台在智能制造、协同研发、供应链协同、产品智能服务化延伸、产业链垂直行业推广等方面得到广泛应用,有效促进了橡胶轮胎产业链上下游企业的集聚和融合,助力橡胶轮胎产业链数字化转型,推动橡胶轮胎产业转型升级和高质量发展。

在当前双循环新发展格局背景下,赛轮集团将继续探索数字化转型之路,努力成为橡胶轮胎行业实现数字化、智能化转型的引领者,赋能橡胶轮胎产业转型升级和高质量发展,从而让中国橡胶轮胎行业站上世界新高度。也希望未来能够精诚携手,助力实现东北传统制造业数字化、网络化、智能化的转型。

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