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Application of Super Zinc Activator AK-1 in Bead Compound of Tire

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Abstract: The application of super zinc activator AK-1 in the bead compound of tires was studied. The results showed that, by using super zinc activator AK-1 to replace the indirect zinc oxide with equal amount or equal zinc content, the scorch time of the bead compound was shortened, the crosslinking density of the vulcanizate increased, the modulus increased, the tensile strength was equivalent, and the heat aging property of the vulcanizate was improved. Moreover, the Payne effect of the compound decreased, the dispersion of fillers was improved, while the hysteresis loss and heat build-up of the vulcanizates were reduced. In addition, the application of super zinc activator AK-1 could reduce the zinc content in the compound, which had the advantages of low cost and good environmental protection.

Key words: super zinc activator; tire; bead compound; heat aging property

2023中国(河北)国际塑料橡胶及包装工业博览会在石家庄举办

2023年5月7—9日, 2023中国(河北)国际塑料橡胶及包装工业博览会在石家庄国际会展中心举办。本届展会以“科技创新、绿色环保、专业客户、OEM精准对接”为主题, 总展出面积近2万m², 吸引了400多家企业参展。

《橡胶工业》《轮胎工业》《橡胶科技》三刊编辑部新媒体平台“橡胶工业传媒”借此次展会, 采访或走访了数家企业, 包括河北华密新材料科技股份有限公司、山东法恩新材料科技股份有限公司、河

南省开仑化工有限责任公司、河北瑞威科技有限公司、青岛一诺橡胶机械有限公司、山西中埃科技有限公司等的展位。部分企业针对在此次展会上展示的新产品、新技术以及公司未来的发展规划和战略进行了介绍。

该展会是由河北省橡塑产业协会主办, 石家庄龙威展览服务有限公司承办的一个专业展会, 旨在展示先进的塑料橡胶及包装工业的产品、技术和服务, 促进国内外企业的交流与合作, 推动相关行业的发展与创新。

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