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Review on Homopolymer of Energetic Binders

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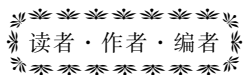
Abstract: In recent years, much attention was paid to new energetic binders used in high-energy solid propellants, which were synthesized from ring opening of oxirane and oxetane with different energetic groups. The relationships between the different energetic groups and physical and chemical properties, such as densities, heats of formation, melting point and mechanical properties, were reviewed. Finally, the possibility of this type of energetic binders used in PBX explosives was discussed by comparing their strongpoint and disadvantages.

Key words: organic chemistry; epoxy alkyl; energetic binder; structure and property; review

CLC number: TJ55; O631.5

Document code: A

DOI: 10.3969/j.issn.1006-9941.2010.01.028



《绿色·高能·钝感弹药专辑》征稿

随着人们环保意识的增强,“绿色”理念已在全球范围内受到重视,高能、低感及绿色环保成为武器弹药发展的新趋势。为此,《含能材料》将于2010年第6期(12月)组织出版《绿色·高能·钝感弹药专辑》,内容涉及新型高能、低感及零(低)污染的新型含能材料的合成、配方、性能测试与表征及相关技术的研究与应用,绿色弹药的发展、洁净硝化等。

欢迎科研工作者来稿,来稿时请注明《绿色·高能·钝感弹药专辑》。