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## Combustion Characteristics of Desensitized Triple Base Propellant

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**Abstract:** The desensitized triple base propellants containing NGu were prepared by polymer deterrent technology with and without saturator, their surface structure were characterized by electron microscopy and combustion characteristics were investigated by means of the ignition test, closed-bomb tests and interior ballistic tests. Results show that there does not exist the surface structure destroy and the ignition characteristics is good for propellant desensitized with the saturation agent. The ignition time is prolonged. The propellant with the saturation agent has great combustion progressivity and good interior ballistic at the same time.

**Key words:** physical chemistry; triple base propellant; deterrent; combustion performance; interior ballistic tests

**CLC number:** TJ55; TQ562; O64

**Document code:** A

**DOI:** 10.3969/j.issn.1006-9941.2010.06.015



## 第八届全国爆轰学术会议会讯

第八届全国爆轰学术会议于2010年11月16日~20日在云南省腾冲县顺利召开,会议由中国力学学会爆炸力学专业委员会爆轰专业组和冲击波物理与爆轰物理国防科技重点实验室共同主办。参会人员来自中国工程物理研究院流体物理研究所、中国工程物理研究院化工材料研究所、中国工程物理研究院总体工程研究所、北京应用物理与计算数学研究所、北京理工大学、南京理工大学、中国科技大学和四川大学等单位。会议共收录论文45篇,内容涉及:材料动态力学性能、爆轰试验与诊断技术、爆轰过程的数值模拟、爆轰波传播规律、燃烧转爆轰的试验与数值模拟、炸药爆轰产物的状态方程与反应速率方程、结构动态响应与安全防护、炸药分子动力学和含能材料的制备与性能等方面。本次会议的顺利召开为我国爆轰学及其相关领域的专家、学者提供了一个良好的平台,学者们就爆轰学的现状与发展进行了深入地交流与讨论,对我国爆轰学科发展起了重要的推动作用。

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