

BNCP 细化后,比表面积由  $0.087 \text{ m}^2 \cdot \text{g}^{-1}$  增大至  $10.8 \text{ m}^2 \cdot \text{g}^{-1}$ , DSC 分解峰温由  $290.05 \text{ }^\circ\text{C}$  提前至  $286.09 \text{ }^\circ\text{C}$ , 撞击感度和摩擦感度均有所降低。

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## Preparation and Characterization of BNCP Superfine Particles

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**Abstract:** Tetraammine-cis-bis(5-nitro-2H-tetrazolato-N2) cobalt (III) perchlorate (BNCP) superfine particles were obtained with fluid milling and cryogenic drying methods. The results show that their morphology become round and smooth, their particle sizes distribute from submicron to  $2 \mu\text{m}$ , their surface areas increase from  $0.087 \text{ m}^2 \cdot \text{g}^{-1}$  to  $10.8 \text{ m}^2 \cdot \text{g}^{-1}$ , and their impact sensitivity and friction sensitivity decrease.

**Key words:** physical chemistry; coordination compound; tetraammine-cis-bis(5-nitro-2H-tetrazolato-N2) cobalt (III) perchlorate (BNCP); superfine particle; sensitivity



### 第十届捷克含能材料新趋势国际研讨会召开

由捷克 Pardubice 大学化工学院含能材料研究所主办的第十届含能材料新趋势国际研讨会于 2007 年 4 月 25 日 ~ 27 日在捷克 Pardubice 召开。来自捷克、美国、英国、德国、俄罗斯、瑞典、日本、巴基斯坦、波兰及中国等 20 多个国家的 200 余名专家学者参加了会议, 论文集收录论文 108 篇。

会上, 多位国际知名炸药专家作了特约报告, 如英国 Cumming 教授介绍了 EDA (欧洲国防机构) 与欧洲能源部门合作的情况, 德国 Held 教授作了"对聚能装药射流的诊断"的报告, 美国 Shackelford 教授作了"热化学分解在含能材料起爆感度和爆轰性能中的作用"的报告, 中国工程物理研究院化工材料研究所曾贵玉在大会上宣讲了他的论文、郁卫飞的展板论文也受到多位学者的关注。

本次会议展现了近年来含能材料领域的研究进展和动态, 涉及理论模拟、爆轰过程机理、新含能材料、合成方法、表征技术、工业炸药等方面内容, 在三唑类、四唑类等富氮含能化合物方面呈现出活跃的势头, 大会达到了交流、学习和提高的目的。

(中国工程物理研究院化工材料研究所 曾贵玉 供稿)