

## Accepted Manuscript

Title: A modified vacuum stability test in the study of initiation reactivity of nitramine explosives

Authors: Svatopluk Zeman, Ahmed Elbeih, Ahmed Hussein, Tamer Elshenawy, Marcela Jungova, Qi Long Yan



PII: S0040-6031(17)30203-4  
DOI: <http://dx.doi.org/10.1016/j.tca.2017.08.006>  
Reference: TCA 77807

To appear in: *Thermochemica Acta*

Received date: 23-4-2017  
Revised date: 19-7-2017  
Accepted date: 11-8-2017

Please cite this article as: Svatopluk Zeman, Ahmed Elbeih, Ahmed Hussein, Tamer Elshenawy, Marcela Jungova, Qi Long Yan, A modified vacuum stability test in the study of initiation reactivity of nitramine explosives, *Thermochemica Acta* <http://dx.doi.org/10.1016/j.tca.2017.08.006>

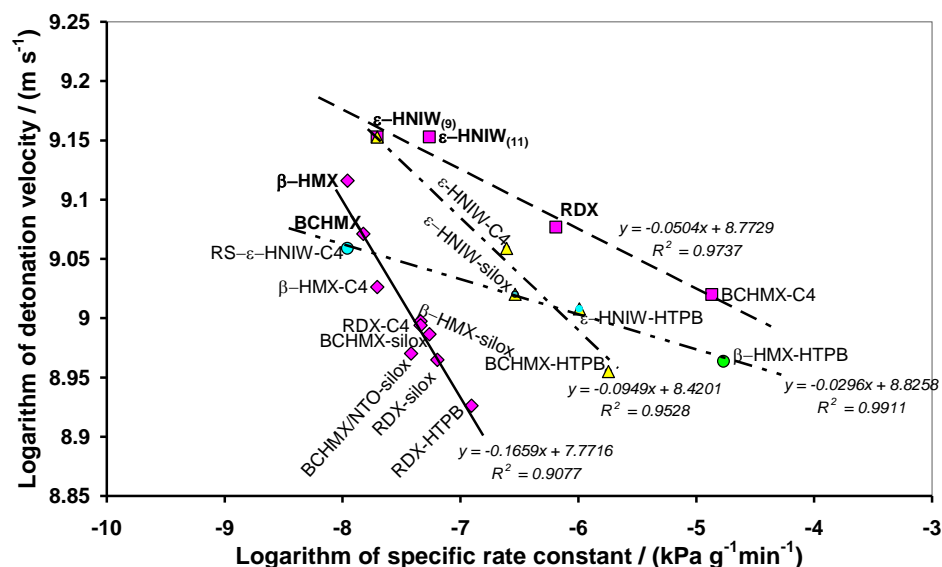
This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## A modified vacuum stability test in the study of initiation reactivity of nitramine explosives.

Svatopluk Zeman<sup>a\*</sup>, Ahmed Elbeih<sup>b</sup>, Ahmed Hussein<sup>a</sup>, Tamer Elshenawy<sup>c</sup>, Marcela Jungova<sup>a</sup>,  
Qi Long Yan<sup>d</sup>

- Institute of Energetic Materials, Faculty of Chemical Technology, University of Pardubice, CZ 532 10 Pardubice, Czech Republic (Czechia);
- Military Technical College, Kobry Elkobbah, Cairo, Egypt;
- Technical Research Center, Cairo, Egypt;
- School of Astronautics, Northwestern Polytechnical University, Xi'an, China

\*) corresponding author: svatopluk.zeman@upce.cz.



Logarithmic relationship between detonation velocity and specific rate constant of zero order thermal decomposition of pure nitramines and of their PBXs with polydimethylsiloxane (silox), polyisobutylene (C4), hydroxyl-terminated polybutadiene (HTPB) and polystyrene-butadiene (form) binders;

Download English Version:

<https://daneshyari.com/en/article/7062136>

Download Persian Version:

<https://daneshyari.com/article/7062136>

[Daneshyari.com](https://daneshyari.com)