Thematic Section: Research into New Materials		Full Paper
---	--	------------

Subsection: Physical Chemistry of Explosives.

Registration Code of Publication: 14-38-6-103

Publication is available for discussion in the framework of the on-line Internet conference "Butlerov readings".

http://butlerov.com/readings/ Contributed: August 20, 2014.

Features for producing multilayer energy compositions of spherical granulation

© Tatiana A. Eneykina *, Lilia I. Selivanova, Rosa F. Gatina, Olga V. Klimovich + and Yuriy M. Mikhailov

Federal Government Enterprise "State Research Institute of Chemical Products." Svetlaya St., 1. Kazan, 420033. Republic of Tatarstan. Russia. Phone: +7 (843) 544-07-21, 544-09-82. E-mail: gniihp@bancorp.ru; ovklimovich@yandex.ru

*Supervising author; *Corresponding author

Keywords: multilayer composition, filler, desensitization, armoring, manometric tests.

Abstract

The emergence of composite energetic materials causes the need of considering possible ways to increase the progressivity of their combustion. Features for producing multilayer gradient compositions are related to the degree of filling the compounds. The variants of the surface treatment of the pellets (desensitization and armoring), depending on the filler content have been considered. On the basis of waterdispersion technology we developed two methods for applying armoring coatings for low- and high-melting compounds.