

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 water-dispersion technology we developed two methods for applying armoring coatings for low- and high-melting compounds.