

Thermal explosion of mixed energy materials on the basis of various combustible binders and oxidizers

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Abstract

Results of defining the parameters of thermal explosion of mixed energy materials are presented in the article on the basis of inert binder and two types of the active binders: on the basis of triazoles and mixed nitroester plasticizers. Perchlorate and ammonium nitrate were considered as oxidizers. It is shown that the most perspective fuel binder in respect to thermal stability and parameters of thermal explosion is the binder with triazole plasticizer.