

Characteristics of thermal decomposition and thermal explosion of certain components of composite energetic materials

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Abstract

The article presents the results of experimental studies of the parameters thermal decomposition in transient conditions and characteristics of the thermal explosion of a number of components mixed energy materials. Spend clustering of substances by their functional appointment determined from the compositions of mixed energy materials and the presence of functional groups, recommendations for the selection of materials from the class of oxidizers, fuel-binder components, energy additives for use in the compositions of mixed energy materials.