

Research into the burning of perchlorate metallized composites containing the salts of dinitramide

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Abstract

In the article, the analysis results are presented on the effect of the guanilurea content and guanidinium salts of dinitramide in the metallized compositions on the basis of inert combustible binders and ammonium perchlorate on the burning rate. It is shown that the use of these salts allows to regulate in a wide range the level of the burning rate of compositions at rather low values of an exponent in the law of burning rate (~ 0.5), to minimize the content of adverse products of burning at insignificant decrease in power mass characteristics in comparison with basic compositions.