

## Research of burning of mixed compositions on the basis of ammonium nitrate, containing dinitramide salts

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### Abstract

In the article, the results of researches of guanylurea and guanidinium salts of dinitramide effects on the parameters of burning and thermal decomposition of compositions on the basis of ammonium nitrate and combustible-binding with nitramino-nitrotriazole softener are presented. The metallic and metal-free compositions are considered. For comparison, the results are given of the compositions containing HMX and HNIW. It is shown that at introduction of the considered salts of dinitramide into the structure of compositions the realized level of speed of burning corresponds to the level for systems with nitramines, thus burning temperature sharply decreases.