

METHOD OF ESTIMATION OF SENSITIVITY INDICATORS FOR SOLID HIGH EXPLOSIVES TO IMPACT. II. MIXTURES OF TYPE HE–HE

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Abstract: The method of approximate estimation of critical parameters for impact initiation of mixed high explosives (HE) of type HE–HE on drop-weight machine, based on thermodynamic relationship between thermal energy and pressure in a deformable HE charge and the solution of special kinetic equation relating local heating of HE to time of its destruction during the impact with additional condition on some transitional state in the mixture, is suggested. A satisfactory agreement between calculated and experimental results has been obtained.

Keywords: mixed high explosives; explosion; critical conditions of explosion

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