

DETERMINATION OF SHOCK INITIATION THRESHOLD OF INSENSITIVE EXPLOSIVE JB9014

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ABSTRACT Shock initiation behavior of explosive JB9014 was experimentally studied by means of one stage gas gun. The pressure profiles on the impacted surface were measured with manganin gauges of type F₄/203A. By using the contrast method, the shock parameters in the explosive sample were determined. The shock initiated deflagration to detonation transition (SDDT) characteristic curve for the explosive charges and the threshold pressures of deflagration and detonation were sequentially obtained therefrom.

KEYWORDS insensitive explosive, shock initiation, threshold pressure.



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