

Luminescence of PETN and RDX

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Abstract

Results of studying the luminescence of power materials are given in this work for PETN, RDX. Research has been carried out over the excitation and luminescent spectra, ranges of synchronous scanning, luminescence kinetics. PETN's luminescent spectrum is measured at excitation by impulses of high-current electron accelerator with pulse duration of ~50 ps. PETN and RDX termoluminescence after exposure to ultraviolet and X-rays has been investigated.