

Optical absorption of PETN and RDX

© Nadezhda L. Aluker,* Yury P. Saharchuk, and Ekaterina V. Ivanova⁺

Physical Chemistry Division. Kemerovo State University. Krasnaya St., 6. Kemerovo, 650043.

Kemerovskaya Region. Russia. Phone: +7 (3842) 58-81-17. E-mail: lira@kemsu.ru.

*Supervising author; ⁺Corresponding author

Keywords: explosive, RDX, PETN, optical absorption.

Abstract

Results of a pilot study of ranges of optical absorption of power materials are given in work (pentaerythrite tetranitrate (PETN) and RDX). Changes in ranges of optical absorption after heat and radiating treatment are studied. The possible chemical reactions leading to observable changes in ranges are discussed.