Numerical simulations of fracture processes in experiments with shock-loaded samples MAKSIM ANOSHIN, LILIA GABZETDINOVA, SERGEY KURATOV, SERGEY SOKOLOV, EKATERINA SHUVALOVA, YEVGENY KOZLOV, VLADIMIR TARZHANOV, OLEG OLKHOV — The paper presents the results of numerical simulations of fracture processes in experiments with shock-loaded wedge-shaped samples and with compressed steel spheres. The samples were compressed by a shock wave produced by a layer of condensed HE. The experiments were focused on the post-shot condition of the samples. The simulations were performed using DMK and LEGAK codes. The use of the NaG fracture model and other strength models is shown to enable the description of the basic features of experimental results.

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