

Abstract Submitted
for the SHOCK13 Meeting of
The American Physical Society

Effects of the grain size on the spall damage of copper FENGGUO ZHANG, HONGQIANG ZHOU, Institute of Applied Physics and Computational Mathematics — The void nucleation equation of the NAG model is modified in the spall damage model for ductile metals, by considering the corresponding relation between grain size and potential nucleated void number. The simulation shows the influence of grain size on free-surface velocity profile, qualitatively producing the consistent results determined experimentally by Escobedo (JAP,110,033513,2011).

Fengguo Zhang
Institute of Applied Physics and Computational Mathematics

Date submitted: 22 Feb 2013

Electronic form version 1.4