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**Behavior of soda lime glass under plane shock wave propagation**

DATTATRAYA DANDEKAR, Army Research Laboratory, Aberdeen, MD 21005 —

This paper describes the results of a variety of shock wave experiments performed on soda lime glass to understand the modifying influence of so called “Failure wave” on its compression, under single shock, shock-re-shock, release, and tension. These experiments were done to at peak shock induced stress of around 6-7 GPa. Shock induced response was recorded by means of VISAR at different thicknesses to determine time dependence of wave form evolution. This paper represents an effort to analyze the results of these experiments in a self consistent manner from these set of experiments and to point out a few unresolved aspects of the shock response of soda lime glass.

Dattatraya Dandekar  
Army Research Laboratory, Aberdeen, MD 21005

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