

The invention provides elements for making a protective reactive armor to be fitted on the outside of an enclosure liable to be exposed to attack by shaped-charge warheads and other threats, such as kinetic energy projectiles and fragments, to thereby enhance survivability of the enclosure and its contents. The invention further provides a non-explosive energetic material useful for such reactive armor elements. A reactive armor element for protection against various types of threats, comprising a casing fitted with an outer cover plate, and at least one sandwich element extending behind the plate; said sandwich element comprising at least one pair of substantially flat plates with an energetic material applied there between, wherein said energetic material is a non-explosive material comprising an oxidizer and a fuel agent, which together with a suitable catalyst material and a binder provide the resultant non-explosive energetic material, constitute a gas generator.