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钨球对陶瓷/铝复合靶的侵彻与贯穿 2004-11-24 12:03:25 中国兵工学会

摘要:采用弹道枪动加载设备,对钨合金球垂直侵彻陶瓷/铝复合靶的弹道性能进行了实验研究,给出了钨球侵彻陶瓷/铝复合靶时,球靶的作用过程。分析了陶瓷/铝复合靶的抗侵彻贯穿机理,测得了钨球贯穿不同面密度靶板的弹道极限速度并与钨球侵彻均质装甲板的作用过程进行了分析对比。所给出的结果对破片式战斗部威力设计及轻型装甲结构的优化设计具有参考意义。关键词:钨球,陶瓷,弹道极限速度;侵彻;贯穿

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PENETRATION AND PERFORATION OF CERAMIC/ALUMINUM COMPOSITE TARGETS BY HIGH-SPEED TUNGSTEN ALLOY SPHERE

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Abstract: Ballistic properties of tungsten alloy spheres penetrating normally through ceramic/aluminum composite targets are investigated and analyzed. The mode of deformation and failure of the tungsten sphere and the target during penetration is explored. The ballistic limiting velocity of the target with different area density is measured. The process and mechanism with which a tungsten sphere penetrates ceramic/aluminum and steel armor are studied and analyzed. It is useful in the design of warhead and light-armors.

Key Words: tungsten alloy sphere, ceramic, ballistic limiting velocity, penetration, perforation

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