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一次引爆型燃料空气炸药装置结构的实验研究

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摘要: 本文介绍一次引爆燃料空气炸药 (FAE) 装置四种不同结构爆炸作用的实验结果。其结果表明, 燃料分散的均匀性是影响一次引爆燃料空气炸药爆炸效果的主要因素。非中心对称装药爆炸分散造成云雾分布的非均匀性, 爆炸效果较差; 中心对称装药有利于形成环向均匀分布的云雾区, 改善爆炸作用效果。

关键词: 燃料空气炸药; 爆炸作用; 云雾爆轰

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EXPERIMENTAL INVESTIGATION OF EXPLOSION EFFECTS OF FUEL AIR EXPLOSIVE BY VARIOUS DEVICE STRUCTURES

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Abstract: Experimental results of the explosion effects of Fuel Air Explosive (FAE) in four kinds of device structures are studied. The experimental results have shown that even distribution of the FAE cloud is the most important factor affecting explosion for the single event FAE. The explosion actions of high explosives which are not located in centers of the devices will make the FAE cloud unevenly distributed around the central axis of e devices, so that the explosion effects become worsened. Charge of high explosive in the central axis of the device is favorable to improvements in the explosin effects of single event FAE.

Key Words: Fuel Air Explosive, explosion efkct, cloud detonation

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