

HEXTINGUISH™



ABSTRACT:

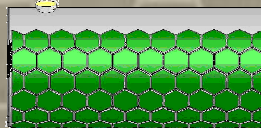
The proliferation of roadside bombs and IED's in theaters of combat have exposed a vulnerability of combat vehicle fuel tanks. Overpressure and shrapnel from a blast can rupture tanks, exposing fuel and explosive vapors. High Impact Technology has developed the Hextinguish™ system, a passive fire suppression technology that uses the force of the blast itself to eliminate the combustion environment. A bonded, flexible matrix of hexagonal packets surround the tank and release their fire suppressive contents when ruptured by a blast event, preventing ignition of vaporized fuel. The Hextinguish™ packets are individually replaceable, making this system a critical component to prevent catastrophic fires and keeping crews and vehicles safe and mission-ready.

SYSTEM DESCRIPTION:

Hextinguish™ is a passive fire suppression system that protects the fuel cell from explosions and fires caused by a tank rupture from explosively formed projectiles or a blast over-pressure. The ruggedized, flexible packets bonded to the fuel tank self-sacrifice and disperse a cloud of fire suppression powder that eliminates the misted fuel vapor and the resulting potential for explosion and fire.

APPLICATION:

Each individual packet in the fire suppression network, regardless of shape, is designed to be independently repaired at a Level 2 field motor pool facility. The Hextinguish™ system is configurable to any tank geometry and compatible with the High Impact Technology BattleReady™ Tank system that self-seals against punctures and protects against direct flame exposure.



TECHNOLOGY READINESS:

The Hextinguish™ system has been fully tested and characterized at Oregon Ballistics Laboratories. This technology is ready for government certification and immediate production. Each prototype will undergo additional testing based on fit, form and function, per vehicle platform and specification.

KEY ATTRIBUTES:

- Multiple Threat Functionality
 - Direct flame exposure survivability
 - Fire/Explosion suppression system
- Quick Field Repairability for enhanced fleet readiness
- Engineered to customer specification and operational need

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