

SAFETANK

▶ Anti explosion

The danger of explosion increases when a tank is punctured with gun shots or shrapnel.

▶ **Solution :** The SAFETANK can be filled with metal mesh insert **EXPLOSHIELD™** or flexible explosion resistant foam, which allows constant fuel flow with minimum fuel displacement.

The **insert minimizes** risk of:

- Ignition** by gunfire, explosives and electrical shorts
- Vapor explosion**

It also attenuates possible slosh.



SAFETANK section with anti explosion inserts.

▶ Flame retardant

When a vehicle fire occurs it is important to prevent it from spreading to the fuel tank for as long as possible.

▶ **Solution :** The SAFETANK has an **outer flame retardant layer** which is essential to heat resistance. This valuable layer is resistant to heat damage along with chemicals and fuel.



The SAFETANK is flame retardant and reduces significantly the risk of explosion

▶ Repairing

When applied on a metallic tank, local repairing after a shooting is possible with the use of a repair patch in the damaged area. This process can be done in the field.

▶ Fire Suppressant

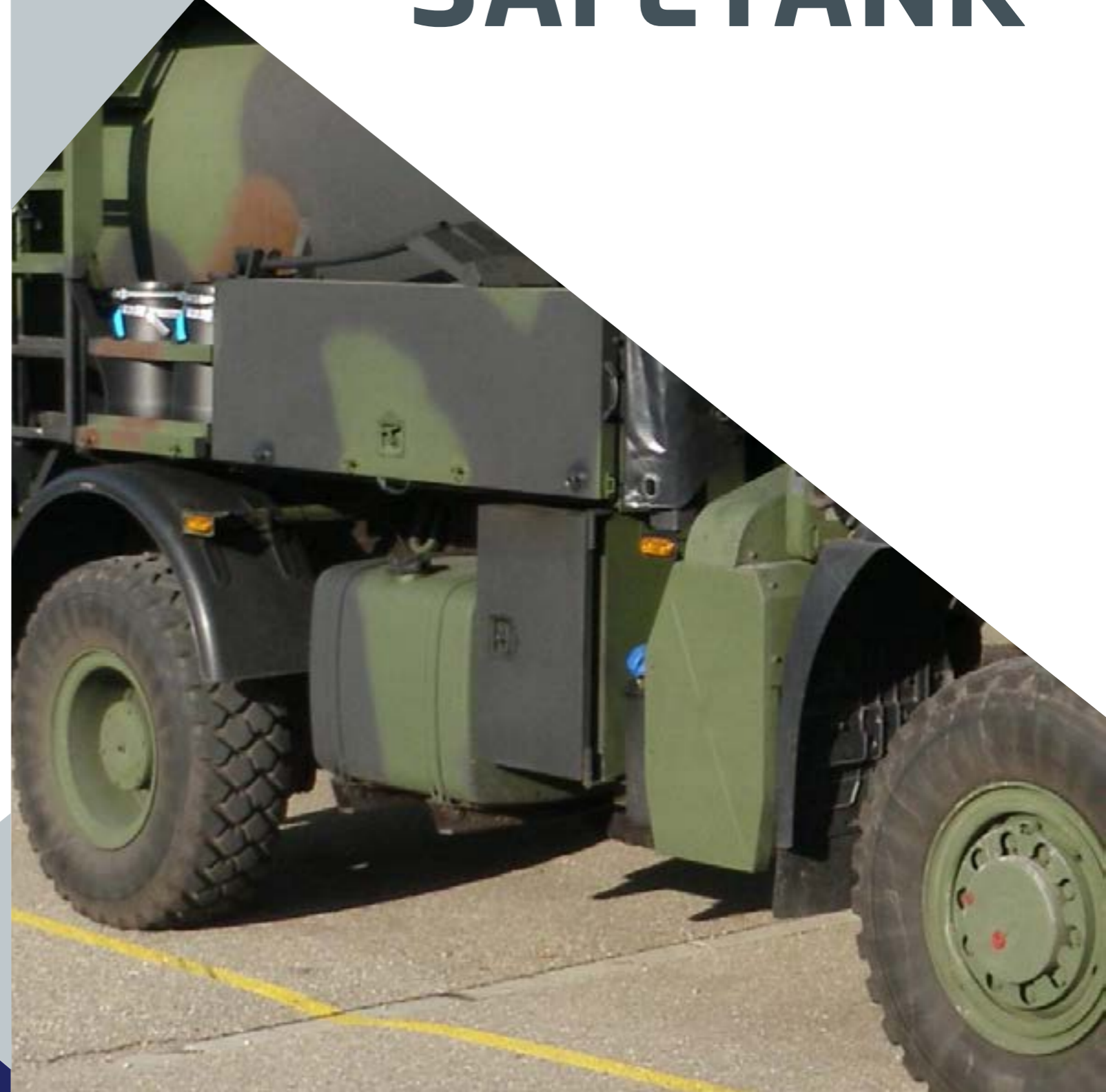
After shooting or blast impact, the risk of fire must be reduced.

▶ **Solution :** The **fire suppressant system** can be added to the Hutchinson Safetank to avoid risk of fire. The fire suppressant will be **immediately released** after shooting or blast impact to extinguish any flame and to prevent fuel ignition of a fire.



HutchinsonSafetankequipped withFireSuppressionSystem

Conception & réalisation : ESC/IBE www.escap-com.fr - Crédits photos : Hutchinson - HUTCHSAFE2014



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**AVAILABLE
IN KIT FORM FOR
FIELD INSTALLATION**



Over the years, Hutchinson has been creating and improving security products that are engineered to increase mobility and save lives.

Hutchinson offers fuel tank protection that guards the vehicle and its crew from the dangerous effects of ballistic and shrapnel impacts.

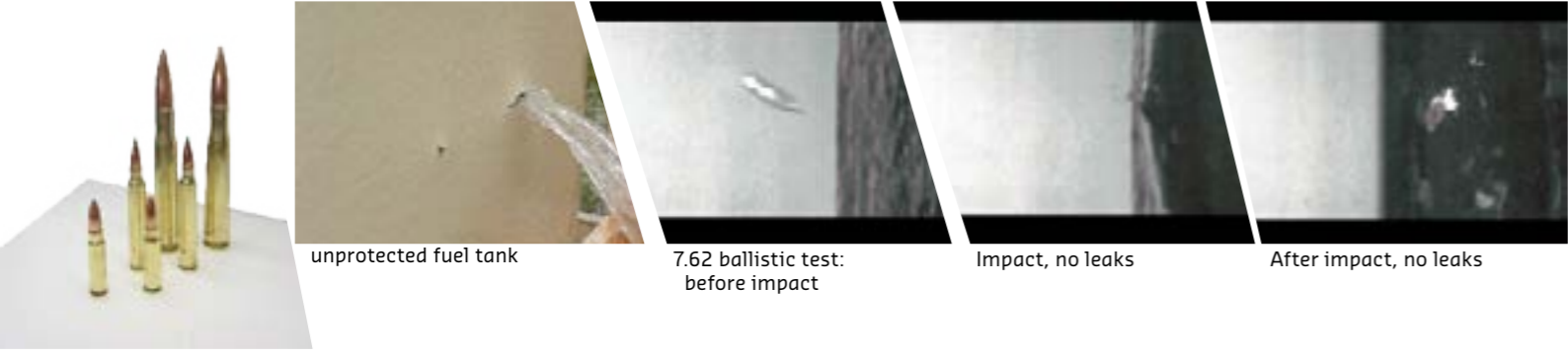
SAFETANK Protected Fuel Tanks

Seal the Tank, Complete the Mission...
All types of vehicles can be subjected to the **dangers of explosion caused by gunfire**, mines and IED's shrapnel. To increase survivability, a vehicle with the appropriate protection is required. Vehicles equipped with SAFETANK can **complete missions and return crews safely**.



Vehicle tanks can be vulnerable to shots, shrapnel or other punctures

- ▶ **Ballistic protection**
Regardless of the conditions, if a vehicle's fuel tank is perforated, shot, or encounters impacts, then fuel leakage has to be prevented. Sealing a wound maintains vehicle mobility by eliminating the loss of fuel and reduces the risk of fire and explosion.
- ▶ **Solution :** The SAFETANK is protected by a specially developed self sealing outer coating. Entry and exit **holes seal instantly**, retaining the fuel inside the tank and minimizing the potential ignition of spilled fuel. Depending on design and specifications it seals ammunition wounds **up to at least 7.62 NATO/AP, 12.7mm**.



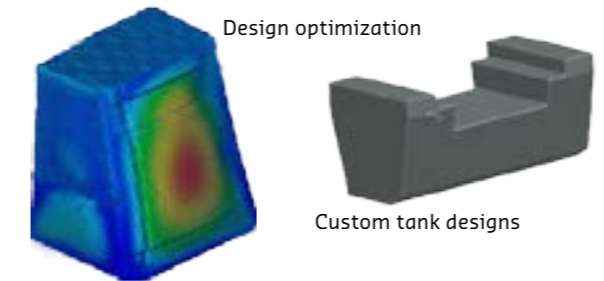
unprotected fuel tank 7.62 ballistic test: before impact Impact, no leaks After impact, no leaks

- ▶ **Weight saving**
Fuel tanks made of steel or protected with armor plates add a significant amount of **weight**. Any reduction of vehicle weight allows for additional crew protection, increased payload, improved fuel mileage, and optimized suspension/dynamic behavior.

▶ **Solution :** With a Hutchinson SAFETANK there is no need for armored plates and the tank itself can be made of lighter weight sheet metal, plastic or aluminium, resulting in **a very significant weight saving**.

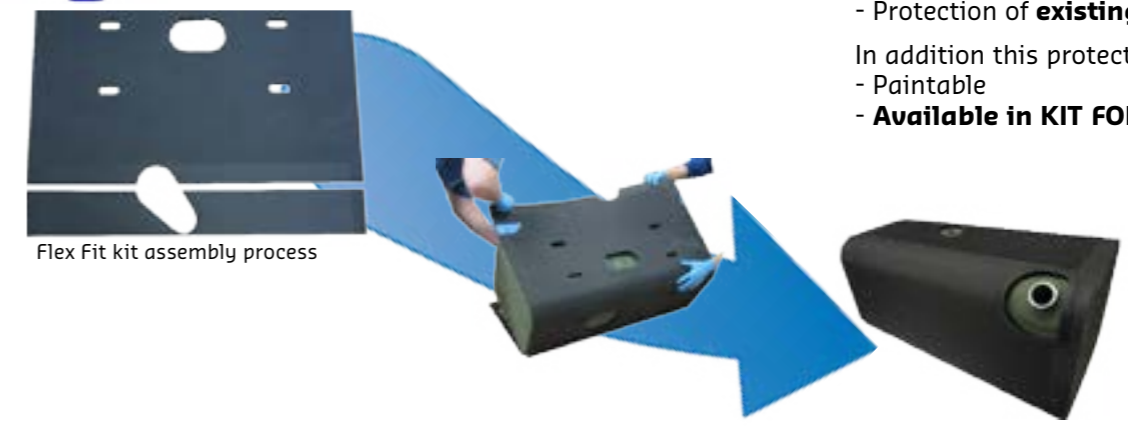


The SAFETANK delivers additional protection while saving weight compared to traditional solutions



- ▶ **Custom design/retrofit**
Each application, regardless of it being a retrofit or a new vehicle variant, requires an engineered solution.

- ▶ **Solution :** Hutchinson can develop a SAFETANK design for :
 - **New vehicle designs**
 - **Retrofits** on existing platforms
 - Protection of **existing tanks**
 In addition this protection is:
 - Paintable
 - **Available in KIT FORM**



Flex Fit kit assembly process

- ▶ **Abrasion resistance**
Tanks can be mounted inside or outside the frame of the vehicle. When mounted outside they are subjected to the rough conditions of both the terrain and weather.

▶ **Solution :** The outer layer of the SAFETANK is **very robust** and has a **high abrasion resistance**. It will survive the harsh conditions seen by military off-road vehicles. It has been developed to limit the impact of UV.



The SAFETANK can resist the harsh offroad environment endured by military vehicles