

AMPHIBIOUS COMBAT VEHICLE (ACV) SURVIVABLE FUEL SYSTEM (SFS)



FEATURES

- *Primary Fuel Tank Assembly (2 tanks)*
 - Usable fuel - 45 gallons/171 liters per tank
 - Defeats 7.62mm ball without penetration
 - Self-sealing against threats up to, and including, 14.5mm
 - Provides self-sealing protection against fragmenting threats
 - Blast tolerant against IEDs and mines
 - Durable welded steel cover designed for battlefield reliability
 - Substantial weight savings compared to fully armored fuel tank
 - Provides increased crew survivability during ballistic events



ROBERTSON
FUEL SYSTEMS

DRIVING ENHANCED SURVIVABILITY

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Why Fuel Containment?

Robertson's revolutionary blast and ballistically tolerant fuel systems now provide military personnel with increased ground vehicle survivability in hostile combat scenarios. Our technology significantly reduces the risk of post-event thermal injuries and damage in otherwise humanly survivable events. *This technology is fuel containment.*

Benefits of Fuel Containment

- Eliminates fuel source for post-incident fires
- Reduces and/or precludes crew injuries due to post-incident fire
 - Saves lives
 - Minimizes vehicle damage
- Retains vehicle fuel to allow potential egress from danger zone

Origins of Fuel Containment in Military Helicopters

- Crashworthy fuel systems were pioneered by company founder, Dr. S. Harry Robertson
 - Prior to implementation, 40% of fatalities were attributable to post-incident fires
 - *After* implementation, fatalities dropped to near zero

Features of Fuel Containment

- Blast tolerant, tear resistant, self-sealing bladders
 - Self-sealing breakaway valves
 - Frangible fasteners



Effective Against Threats

- 7.62 mm rounds
- 12.7 mm rounds
- 14.5 mm rounds
- 23 mm HEI rounds
- IED's
- API
- Underbelly mine blasts

Other Benefits

- Can be used in conjunction with retardants and suppressants where warranted
- Minimizes logistics and training impacts when compared to other approaches
- Provides more weight efficient protection in lieu of additional heavy armor



Developing Survivable Fuel Systems For Over 35 Years

For more information on fuel containment, log on to www.robbietanks.com