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## Military Fire & Explosive Suppression System (MFESS)

The AGI MFESS is designed to protect both crew and engine assets within military vehicles by automatically detecting a fire/explosive source and rapidly extinguishing the threat. Its key features are:

- ➔ Light weight and low space-claim due to unpressurised canisters; typical installation including both crew and engine bay = 20kg including hoses and cables.
- ➔ Enhanced Reaction Time - Responds within 3ms.
- ➔ Operating Temperature Range from -40°C to +80°C.
- ➔ Utilisation of in-service suppressants mediums such as FM200 based products, and Novec 1230 Gas - offering an environmentally friendly undiluted suppressant.
- ➔ Built In Test Function - Provides automatic and manual check of detection window cleanness, and electrical circuitry.
- ➔ Designed to meet STANAG 4317.
- ➔ Designed to withstand IED/crash events.
- ➔ Provides flame activation to the AGI HaLO Egress Lighting System.
- ➔ Extended operational life of Suppressant - 20 Years.
- ➔ Provides the User with through life cost savings with a minimum MTBF of 150,000 hours.



Proprietary Information and Design - Commercial in Confidence

# Design Specification

Medium	Standards	Quotes
Environmental	DefStan 00-35 Part 3 Issue 4. CL5,C2,CL2,A1,CL6,B3 Mil Std 501.5 to 502.5	-46 to + 70 Deg C including humidity, solar heating and marine environments.
Salt Mist	DefStan 00-35 Part 3 Issue 4. Chapter 4-02 Test CN2	
Vibration	DefStan 00-35 Part 3 Issue 4 Chapter 2-03 Test M3; Mil Std 810F	
Ballistic Shock	32g 18ms to 500g 2ms, (all axis) DefStan 00-35 Part 3 Issue 4 Chapter 2-03 Test M3	Extreme shock for armoured fighting vehicles.
EMC/V	DefStan 59-411 Part 3 I1; Mil Std 461; DefStan 61-5 Part 6 Issue 6; Mil Std 501.5 to 502.5. MIL STD 465C. ISO 10605:2008 Lightning Strike to STANAG 4236.	Whole Platform EMC testing may be required by vehicle OEM as required.
Contaminates	DefStan 00-35 Part 3 Issue 4 Section 11; Chapter 4-04 Test CN4. Mil Std 810G 504.1	
Altitude	DefStan 00-35 Part 3 Issue 4 Test CL21 (A,B,C) CL15 (A) CL9	
Dust	DefStan 00-35, Ch3-25, CL25 Mil Std 810F 510.5	
Mould Growth	DefStan 00-35 Part 3 Issue 4. Test CN1.	28 Days Severity.
Freeze - Thaw	DefStan 00-35 Part 3 Issue 4 Test CL24	
Human Factors	Def Stan 00-250 P1	
Weight		Approx 20Kg - dependent upon installation

Patent protected unrivalled technology. AGIs HaLO (Hatch Lighting & Orientation) System is protected by US patent US8253337B2, UK patent GB2472090, EU patent pending EP2278566. Furthermore HaLO is protected by various Europe-wide registered designs 001593153.

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