



A8 ANTI-HAIL ROCKET

The modern reality of hail suppression

The A8 anti-hail rocket is another advanced solution designed by EDePro, with the aim to meet challenges regarding climate changes. Already field-tested and used worldwide, it provides protection from hail and prevents the damage caused by hailstones. Moreover, as a member of a new generation of anti-hail rockets, it can be launched from its own container, which means a higher velocity, an extended operating range and an even greater reliability. AHR A8 represents a field-proven solution with worldwide operational usage.

Tactical Use

The A8 anti-hail rocket is intended for carrying 400 g of a particular reagent and spreading it inside a thunderstorm cloud. Whether launched as a single projectile or as a salvo, the A8 has the same effect. It disperses that reagent at a high altitude, in a period between 35 and 43 s, thus successfully disrupting the formation of hailstones.

The Rocket & Container System

The A8 is launched from its own container, which increases the rocket's velocity and reduces the propellant's total mass, compared with the rockets that are only propelled by thrust force. In addition, such a launching system gives two major advantages – it makes operating easier, and it provides an enhanced performance.

Compact Design

Due to its small calibre, the rocket requires less material for production, thereby significantly reducing costs. The launcher is robust and compact, taking up minimum space, and it enables fast gaining of elevation and azimuth.

MAIN SPECIFICATIONS

- Ø Calibre: 55 mm
- CG*: 544 mm
- Takeoff mass: 5.1 kg
- Length: 1201 mm

*Centre of gravity measured from the rocket's nose

Safety & Environmental Protection

Environmental pollution is prevented thanks to the thermoplastic materials used in the A8's construction. The rocket's propellant grain is made of a composite thermoplastic propellant and inhibitor. The combustion chamber is made of glass-epoxy composites, while the nozzle consists of glass-phenolic material.





MAIN TACTICAL AND TECHNICAL PERFORMANCES

Technical Specification

Vertical range (elevation angle: 85°)
Reagent discharge time*
Moment of self-destruction* (seconds after launch)
Operating temperature range
Ignition circuit resistance
Required current
Required voltage
Container's calibre
Rocket's calibre
Number of containers
Container's length
Container's mass
Takeoff mass
Launcher's mass
Elevation range (50 incr.)
Azimuth range (50 incr.)
Burning time
Total motor impulse
Propellant's mass
Start of reagent discharge* (seconds after launch)
End of reagent discharge* (seconds after launch)
Reagent's mass
Reagent's activity at -100° C

*adjustable according to the customer's requirements.

Data	Unit
7750	m
36	s
43	s
-30±60	°C
1.2	Ω
0.68	A
24	V
60	mm
55	mm
6	/
1422	mm
1.4	kg
5.1	kg
65	kg
450 ~ 850	/
0~3600	/
3.0	s
3500	Ns
1.8	kg
8	s
43	s
400	g
2.5 x 1013	par/g

BENEFITS

- » Easy to use, with only a few hours of training required for operating;
- » Solid propellant based on EDePro's in-house technology;
- » Main performances adjustable according to user requirements;
- » Self-destruction managed by two independent pyrotechnic timers.

