

## Multiple Effect Rocket System (MERS) Infrared Illumination Rocket, 300m



### Application

Providing enhancement of infrared image intensifiers such as night vision goggles during combat or surveillance situations in darkness.

### Description:

Smokeless burning of the rocket propellant results in minimal signature at initiation combined with no visible signature throughout flight providing concealment from detection of launch. Flight tube design and induced tail spin provide high level of accuracy. The store architecture requires no stored energy in the initiator. Twist. Initiation provides for both left & right hand operation.

### Operation:

MERS incorporates a 3 stage safety system comprising of:

1. Turn twist initiator clockwise from Safe Position "S" into Armed-Position "A". This action unlocks the twist initiator allowing it to be pulled in axial direction.
2. Pull twist initiator from Armed-Position into Firing-Position "F". This action unlocks the twist initiator allowing it to be rotated clockwise or counter-clockwise.
3. Twist initiator clockwise or counter-clockwise to fire the rocket.

Provided the twist initiator has not been rotated, MERS can be returned to the safe condition.

### Specifications:

Length:	260mm
Diameter:	51mm
Weight:	Approx. 535g
Recoil:	<500 N
Flare altitude at firing angle 45°:	200m
Range:	300m
Burning time:	30 Sec
Radiant Intensity:	50 Wsr-1
Frequency Range:	0.7µm to 1.0µm
Light intensity:	< 200 cd

### References:

N/A

### Product Codes:

9186000

### NATO Stock Numbers:

TBA

### UN Number:

UN 0254

### Proper shipping name:

Ammunition, Illuminating

### Packing:

10 rockets packed in a steel box (4A), type PA19

Qty. per box	Hazard Class	NEQ (kg)	GR Wgt (kg) approx.	Vol m <sup>3</sup> approx.
10	1.3 G	1.5kg	8.7kg	0.012m <sup>3</sup>

This is the standard method of pack. Other packs may be available subject to specification. Please contact our sales team to discuss your requirements