

Smoke Tracking Flare



QinetiQ Target Systems' Smoke Tracking Flare is an enhancement used with the family of QTS Unmanned Aerial Targets, which produces a vivid orange coloured smoke in order to increase the visibility of the target.

In order to achieve realistic and cost-effective anti-missile/ anti-aircraft training of defences, unmanned aerial targets are often required to be fitted with visual enhancements.

Each smoke tracking flare produces a vivid orange coloured smoke that is visible at ranges of 6 to 10km in fair weather conditions. Ignition of the flare is initiated by the target operator sending a firing signal by remote control, after which the smoke will be emitted for in excess of 40 seconds.

A lightweight and simple design ensures that the maximum number of flares can be fitted easily to the range of aerial targets supplied by QinetiQ Target Systems. The design of the product also ensures that Miss Distance Indicator (MDI), if fitted, are free from interference. In addition, the environmental sealing remains intact during flight unless the flare is ignited, thus avoiding any possible ingress of moisture before firing, and also allowing return to storage if not used.

Key features

Dense, highly visible smoke generator

Ignition on command from target control station

Burn time in excess of 40 seconds each

A range of colours available

Smoke Tracking Flare Specifications

Characteristics

Burn time	In excess of 40 seconds
Delay	Less than 8 seconds

Dimensions

Length	99.0mm (3.9 in)
Diameter	58.0mm (2.28 in)
Gross weight	240g (8.46 oz)
Net explosive content	176g (6.21oz)

Storage

Maximum storage temperature	30°C
Minimum storage temperature	5°C
Relative humidity	less than 70%
Shelf life	3 years

References

NATO Stock Number	Orange Smoke 1370 99 6239326
UN Hazard Classification	1.4S
UN Item Number	0432



Fig 1: QTS Smoke Tracking Flare



Fig 2: Smoke Tracking Flare deployed from a Banshee Aerial Target

Collaborating with QinetiQ

At QinetiQ we bring organisations and people together to provide innovative solutions to real world problems, creating customer advantage.

Working with our partners and customers, we collaborate widely, working in partnership, listening hard and thinking through what customers need. Building trusted partnerships, we are helping customers anticipate and shape future requirements, adding value and future advantage.

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