



Radnor Range Ltd

weapons . ordnance . munitions . explosives



STANAG 4382: 'Slow Cook Off'.



STANAG 4241: Bullet Impact Test.

Insensitive Munitions Trials

Radnor is able to carry out the full range of tests as described in STANAG 4439 and AOP39, necessary in the Insensitive Munitions (IM) Classification of Ordnance. For tests in support of UK MoD contracts, the STANAGs are carried out in accordance with Def. Stan. 00-35 where appropriate.

Data analysis and a fully configured test report are provided with all trials, suitable for direct submission to Sentencing Authorities where appropriate. A typical suite of standard tests performed on the munition would include:

STANAG 4241: Bullet Impact

The munition is impacted with a single 0.50" M2 armour piercing (AP) bullet. Other projectiles and calibre may be used depending on the Threat Hazard Analysis.

STANAG 4496: Fragment Impact

The munition is impacted with a 18.6g steel fragment, at speeds of up to 2,500m/s.

STANAG 4382: Slow Heating

The 'slow cook-off' trial involves heating the munition, increasing at 3.3°C/hour until an event occurs.

STANAG 4240: Fuel Fire

The 'fast cook-off' trial engulfs the munition in fuel rich flames from a liquid flame fire until an event occurs.

STANAG 4375: Safety Drop

The munition is dropped in various orientations onto a steel test surface from a height of up to 12m.

STANAG 4396: Sympathetic Reaction

Packaged acceptor munitions are subject to the maximum credible event from an identical donor munition.

For further information or to book a test, please use the contact details below.



Radnor is an MoD UK approved test house

T: +44 (0)1544 267441
F: +44 (0)1544 267431
E: info@radnor.org.uk

Radnor Ranges Ltd
11 Broadaxe Business Park,
Presteigne, Powys LD8 2UH

www.radnor.org.uk