



Radnor Range Ltd

weapons . ordnance . munitions . explosives

Testing & Evaluation



STANAG 4382 Slow Cook Off



STANAG 4241 Bullet Attack

Insensitive Munitions Trials

Radnor is able to carry out the full range of tests as described in STANAG 4439 and AOP39 necessary in the 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. A typical suite of standard tests performed on the munition would include:

Bullet Attack to STANAG 4241	.....	where the munition is impacted with a single 0.50"M2 AP bullet. (other projectiles and calibre may be used depending upon the Threat Hazard Analysis)
Fragment Impact to STANAG 4496	.....	where the munition is impacted with a 18.6g steel fragment at speeds of up to 2500m/s.
Slow Heating to STANAG 4382	.....	"Slow Cook Off". The munition is heated increasing at 3.3°C/hour until an event occurs.
Fuel Fire to STANAG 4240	.....	"Fast Cook Off". The munition is engulfed by fuel rich flames from a liquid fuel fire until an event occurs.
Safety Drop to STANAG 4375	.....	where the munition is dropped in various orientations onto a steel test surface from heights of 12m or greater.
Sympathetic Reaction to STANAG 4396	.....	where packaged acceptor munitions are subject to the maximum credible event from an identical donor munition.

Data analysis and a fully configured test report are provided with all trials, suitable for direct submission to Sentencing Authorities where appropriate.

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