

Data Sheet

SURROGATE PROJECTILE : 30x165MM AP-T

Description

This test item is an accurate copy of the penetrating core from the Soviet 30x165mm AP-T projectile (as per STANAG 4569 / AEP-55 Vol 1 ed2 level 6a). The surrogate has been reverse engineered from actual projectiles and is correct in mass, dimensions and metallurgy. The pressed steel windshield is omitted as the aerodynamic function it performs is not required for armour T&E purposes (This also greatly improves projectile flight). The copper driving band of the original projectile is also omitted and its location simplified to prevent use in an actual weapon. The tracer cavity of the original design is retained and is supplied empty, this cavity can be filled with an inert material if required.



Figure 2; Original Soviet production 30x165mm AP-T shell

Image



Figure 1; Hephaestus Surrogates production flight surrogate 30x165mm AP-T core for use in with Hephaestus Sabot

Technical details

	Mass (g)	Length (mm)	Material	Performance
Flight Surrogate	385 +/- 1	385mm	Mild Steel (flight surrogate)	Low cost, velocity, zeroing 7 practice option to reduce cost of equipment setup
Full Surrogate	385 +/- 1	385mm	Metallurgically representative surrogate alloy with appropriate heat treatment	Identical to original projectile.
Launch System	Smoothbore launchers of >40mm ID only			
Sabot	Hephaestus Sabot systems are available fit this product as both standard and custom fit options. The current standard option is to fit a 50mm smooth bore.			



Test Standards Applicable

STANAG 4569 / AEP-55 Vol 1 Ed 2 Level 6 (one of two specified projectiles)

Related products / Services

Hephaestus can provide sabots to suit this test item and allow for launch from smoothbore test guns

Hephaestus can provide full test and evaluation services (including launch and velocity recording) of this test item through our UK based T&E partners.

