25MM
PGU-33/U TPF-T
Target Practice Frangible-Tracer

The Improved 25mm training cartridge, the PGU-33/U TPF-T, resolves a long-standing ricochet problem associated with air-to-ground scenarios. The PGU-33/U cartridge incorporates a frangible projectile that breaks up into small non-ricocheting fragments upon impact with the target.
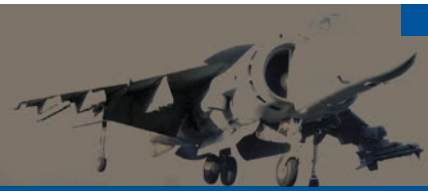
The PGU-33/U utilizes a projectile made of unique advanced powder metal material. This material combines the strong and tough properties of typical steels with the brittle and frangible properties achievable with powdered metals. This cartridge provides for a cost effective and safe means to train without concern for hazard to the pilot or the aircraft.

Finally, a cost-effective, safe way to train, and an ability to make use of limited-range space throughout the world.

GENERAL DYNAMICS
Ordnance and Tactical Systems

25MM PGU-33/U TPF-T
Target Practice Frangible-Tracer

The PGU-33/U TPF-T replaces the standard steel PGU-23/B TP and is compatible with the NATO 25mm gun systems. The PGU-33/U is a ballistic match to the PGU-32/U Semi-Armor Piercing High Explosive Incendiary-Tracer and the PGU-20/U API combat cartridges. General Dynamics Ordnance and Tactical Systems is the developer and producer of the PGU-33/U cartridge.

The PGU-33/U TPF-T is type classified for service use in the AV-8/B Harrier platform. The cartridge is fully interoperable in the Marine Corps LAV-AD, LAV-25, the Navy's Mk 38 and the Army Bradley Fighting Vehicle.
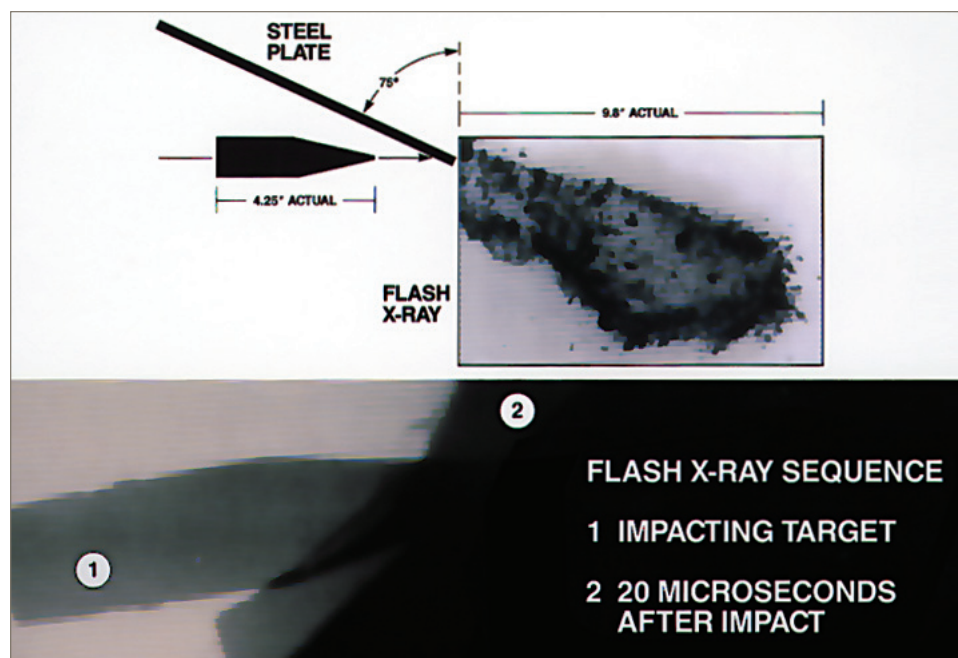
Features
- **Ballistic match to PGU-32/U SAPHEI-T, PGU-20/U API and conventional 25mm ammunition**

- **Safe, realistic training for air-to-ground missions**

- **A cost effective training round with frangibility**

- **No ricochet hazard; limited ranges can now be fully utilized**

The PGU-33/U TPF-T utilizes unique powder metal technology to eliminate the serious ricochet hazards that exist with the standard 25mm TP ammunition.

The PGU-33/U TPF-T produces tiny fragments against various targets that allows for safe and accurate training without the concern for ricochet hazard.

STEEL PLATE
75°
9.8" ACTUAL
4.25" ACTUAL
FLASH X-RAY
② ①

FLASH X-RAY SEQUENCE
1 IMPACTING TARGET
2 20 MICROSECONDS AFTER IMPACT